Attachment 1: CITC Technical Specifications

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specifications

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Glossary

Abbreviation	Writing out in full
ADSL	Asymmetrical Digital Subscriber Line
ANSI	American National Standards Institute
APCO	Association of Public-Safety Communications Officials-International
ATM	Asynchrones Transfer Mode
CDMA	Code Division Multiple Access
CENELEC	Comité Européen de Normalisation Electrotechnique
CEPT	European Conference of Postal and Telecommunications Administrations
CISPR	International Special Committee on Radio Interference
CITC	Communications and Information Technology Commission (Committee)
CLI	Caller Line Identification
DAB	Digital Audio Broadcasting
DATECH	Deutsche Akkreditierungsstelle Technik e.V.
DECT	Digital Enhanced Cordless Telecommunications
DoC	Declaration of Conformity
DRM	Digital Radio Mondiale
DSL	Digital Subscriber Line
DTMF	Dual-tone multi-frequency
DVB	Digital Video Broadcasting
DVB-RCS	Digital Video Broadcasting – Return Channel over Satellite
ECC	Electronic Communications Committee
ELT	Emergency Locator Transmitters
EMC	Electromagnetic Compatibility
EPIRB	Emergency Position Indicating Radio Beacon
ETSI	The European Telecommunications Standards Institute
EU	European Union
FCC	Federal Communications Commission
GLONASS	GLObal NAvigation Satellite System
GMDSS	Global Maritime Distress and Safety System
GPRS	General Packet Radio Service
GPS	Global Positioning System
GSM	Global System for Mobile Communications
HDSL	High bit rate Digital Subscriber Line
HSSI	High Speed Serial Interfaces
iDEN	Integrated Digital Enhanced Network
IEC	International Electrotechnical Commission

Abbreviation	Writing out in full
IEEE	Institute of Electrical and Electronics Engineers
ILAC	International Laboratory Accreditation Cooperation
ISDN	Integrated Digital Services Network
ICAO	International Civil Aviation Organization
IT	Information Technology
ITU	International Telecommunications Union
LAN	Local Area Network
LMES	Land Mobile Earth Stations
LEO	Low Earth Orbit
LORAN	LOng Range Aid to Navigation
MSS	Mobile Satellite Service
NAVTEX	Navigational Telex
OJEC	Official Journal of the European Community
PBX	Private Branch Exchange
PMR	Professional Mobile Radio
PP	Point to Point
PMP	Point to Multipoint
POTS	Plain Old Telephone Service
PSTN	Public Switched Telephone Network
R&TTE	Radio and Telecommunications Terminal Equipment
RFID	Radio Frequency Identification System
RTTT	Road Transport & Traffic Telematics
SAR	Specific Absorption Rate
SASO	Saudi Arabian Standard Organisation
SDR	Software Defined Radio
SDSL	Symmetric Digital Subscriber Line
SHDSL	Single-Pair High-speed Digital Subscriber Line
SIT	Satellite Interactive Terminal
SMS	Short Message Service
SNG	Satellite News Gathering
S-PCN	Satellite Personal Communications Network
SRD	Short Range Device
SUT	Satellite User Terminal
TETRA	Trans European Trunked Radio
TETRAPOL	Trunked Radio Technology developed by EADS
TIA	Telecommunications Industry Alliance (USA)
TTE	Telecommunications Terminal Equipment

Abbreviation	Writing out in full
ULP	Ultra Low Power
UMTS	Universal Mobile Telecommunications System
UWB	Ultra Wide Band
VHF	Very High Frequency
VSAT	Very Small Aperture Terminal
VoIP	Voice over Internet Protocol
WIFI	Wireless Fidelity
WiMAX	Worldwide Interoperability for Microwave Access
WirelessHD	Wireless High-Definition
WLAN	Wireless Local Area Network

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: GEN001
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General Requirement

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document defines the minimum requirements which must be met by all Telecommunications Terminal Equipment, Radio Equipment, Network Equipment and IT Equipment intended to be used and sold in the Kingdom of Saudi Arabia. These requirements must be applied in addition to any product specific requirements that may exist.

All telecommunications terminal and radio equipment must comply with the relevant National Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the applicable specifications from those listed below. Where European Norms are used as the basis for providing proof of compliance, the issue or version of the specification(s) used, should have been published in the *Official Journal of the European Community (OJEC)* and be recognised as providing "presumption of conformity" under the European R&TTE Directive at the time approval is sought. Where internationally recognised equivalent standards are applied, the latest published version of the standard should be used.

Safety

Electrical:

EN 60950 or IEC 60950
Safety of information technology equipment

Radio and SAR:

EN 50360
Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz - 3 GHz)

EN 50364
Limitation of human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 10 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications

EN 50371
Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz) - General public

EN 50385
Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110 MHz-40 GHz) - General public

EN 62311:2008
Assessment of electronic and electrical equipment relatedto human exposure restrictions for electromagnetic fields (0 Hz-300 GHz)
Optical and Laser:

EN 60825-1 or IEC 60825-1
Safety of laser products
Part 1: Equipment classification, requirements and user's guide

EN 60825-2 or IEC 60825-2
Safety of laser products --
Part 2: Safety of optical fibre communication systems

EMC

EN 55022 or CISPR 22
Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

EN 55024 or CISPR 24
Information technology equipment - Immunity characteristics - Limits and methods of measurement

EN 301 489
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services

EN 61000-3-2 or IEC 61000-3-2
Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)

EN 61000-3-3 or IEC 61000-3-3
Part 3-3: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection

EN 61000-3-11 or IEC 61000-3-11
Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current <= 75 A and subject to conditional connection

EN 61000-6-1 or IEC 61000-6-1
Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments

EN 61000-6-2 or IEC 61000-6-2
Part 6-2: Generic standards - Immunity for industrial environments

EN 61000-6-3 or IEC 61000-6-3
Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments

EN 61000-6-4 or IEC 61000-6-4
Part 6-4: Generic standards - Emission standard for industrial environments
Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org. CENELEC, IEC and CISPR standards may be obtained at cost from, or through www.cenelec.org and from www.iec.ch respectively. Standards may also be obtained from the SASO website www.saso.org.sa. Information on the status of standards may also be obtained from these web sites. Latest status of European Norms may be found via http://europa.eu

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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: AI001
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Specification for Equipment connecting to the Analogue PSTN

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to terminal equipment which includes interfaces that may be connected to Analogue PSTN services offered by public network operators in the Kingdom of Saudi Arabia.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Equipment covered by this specification includes, but is not limited to the Analogue PSTN interfaces of the following equipment types:

Product type	Notes
Single line telephones	
Key systems	
Fax machines	
Modems	
Pay telephones	Privately owned payphones
PBX	
Answering machines	
Security alarms	
Cordless phones	Base station –Radio requirements also apply
DECT	Base station - Radio requirements also apply
SMS	
Remote telemetry	
Subscriber meters	
Other equipment directly connecting to analogue PSTN services	

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications.

ES 203 021–1
Access and Terminals (AT);Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks;Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017;Part 1: General aspects

ES 203 021-2
Access and Terminals (AT);Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks;Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017;Part 2: Basic transmission and protection of the network from harm

ES 203 021-3
Access and Terminals (AT);Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks;Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017;Part 3: Basic Interworking with the Public Telephone Networks

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Additional requirements

Pulse Dialling
For products that offer Pulse or Loop Disconnect dialling, the conformance should be confirmed through testing in accordance with ETSI ES 201 187 based on the following:

8 to 12 pulses per second
Make period 40+/-10ms
Break period 60+/-10ms

ES 201 187
"2-wire analogue voice band interfaces; Loop Disconnect (LD) dialling specific requirements".

Analogue Voice
Analogue telephones and other equipment which offer analogue handset telephony such as fax machines or dect should comply with the requirements of the following standard.

TBR 38
Public Switched Telephone Network (PSTN);Attachment requirements for a terminal equipment incorporating an analogue handset function capable of supporting the justified case service when connected to the analogue interface of the PSTN in Europe

TBR 10
Digital Enhanced Cordless Telecommunications (DECT);General Terminal Attachment Requirements;Telephony Applications

Volume control
Where a terminal is fitted with a receive volume control, the default position of the volume control should fall within the acceptable range of RLR described above.

Caller Line Identification (CLI)
Products which offer CLI, should recognize DTMF signaling in accordance with the following standard:

ES 201 235-3
Access and terminals (AT) specification of Dual –Tone Multi Frequency (DTMF) Transmitters and receivers; Part 3 Receivers.

Fixed Line Short Message Service (SMS)
Terminals offering the SMS feature must comply with the relevant parts of requirements of ETSI ES 201 912 in particular the physical layer characteristics of section 5.3.1.

ES 201 912
Access and Terminals (AT);Short Message Service (SMS) for PSTN/ISDN;Short Message Communication between a fixed network Short Message Terminal Equipment and a Short Message Service Centre

EN 300 659-2
Access and Terminals (AT);Analogue access to the Public Switched Telephone Network (PSTN);Subscriber line protocol over the local loop for display (and related) services; Part 2: Off-hook data transmission

ES 200 778-2
Access and Terminals (AT);Analogue access to the Public Switched Telephone Network (PSTN);Protocol over the local loop for display and related services; Terminal equipment requirements

Meter pulse detection
When in the off hook state, equipment which offers meter pulse detection should recognize the presence of a transverse 12KHz meter pulse of duration and levels described by the network operator. The equipment should present an impedance of greater than 200Ω at 12KHz under all line conditions.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: AI003
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Specification for Equipment connecting to ADSL, ADSL2 and ADSL2+ Services

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to terminal equipment which includes interfaces that may be connected to ADSL, ADSL2 and ADSL2+ services offered by public network operators in the Kingdom of Saudi Arabia.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

The requirements in this specification limit the disturbance of ADSL services to the voiceband PSTN service provided on the same physical circuit and to services operating at higher frequencies provided on different circuits. Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable National Specifications.

Equipment covered by this specification includes, but is not limited to the Analogue PSTN interfaces of the following equipment types:

Product type	Notes
ADSL Splitter devices	For direct connection to the ADSL line circuit.
ADSL Modems	For direct connection to the ADSL line circuit or indirect connection via an ADSL line splitter.
Other equipment	For direct connection to the ADSL line circuit or indirect connection via an ADSL line splitter.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

Technical Requirements to limit disturbance to Voiceband Services:

ES 202 913
Access and Terminals (AT); POTS requirements applicable to ADSL modems when connected to an analogue presented PSTN line

TS 101 952-1-1
Access network xDSL transmission filters; Part 1: ADSL splitters for European deployment; Sub-part 1: Specification of the low pass part of ADSL/POTS splitters

TS 101 952-1-2
Access network xDSL transmission filters; Part 1: ADSL splitters for European deployment; Sub-part 2: Specification of the high pass part of ADSL/POTS splitters

Power Spectral Density in the 0 to 4 KHz band.
(G.992.1 cl. A.2.4.2.1)

The total power in the voiceband (0 Hz to 4 kHz) shall not exceed 15 dBrn.

The power spectral density in the range 0 to 4 kHz shall not exceed -97.5 dbm/ Hz.

Technical requirements to limit disturbance to services operating at frequencies above the voiceband service.

Service	Specification	Upstream PSD	Aggregate upstream transmit power
ADSL (G.dmt)	G.992.1 (07/1999)	Annex A (A2.4)	Annex A (A.2.4.3.3)
Splitterless ADSL (G.Lite) (Non overlapped spectrum)	G.992.2 (07/1999)	Annex A (A1)	Annex A (A1.2.3)
Splitterless ADSL (Overlapped spectrum)	G.992.2 (07/1999)	Annex B (B1)	Annex B (B1.2.3)
ADSL2	G992.3 (01/2005)	Annex A	Annex A
RE-ADSL2	G992.3 (01/2005)	Annex L	Annex L
ADSL2 increased upstream rate	G992.3 (01/2005)	Annex M	Annex M
Splitterless ADSL2	G992.4 (07/2002)	Annex A	Annex A
ADSL2+	G992.5 (01/2005)	Annex A (A2.2)	Annex A (A2.2.2)
ADSL2+ increased Upstream rate	G992.5 (01/2005)	Annex M	Annex M

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Power Spectral Density (PSD).
ADSL equipment shall operate within the specified upstream PSD mask (see Table 1) to prevent interference to other services.

Aggregate transmit power
The Upstream aggregate transmit power for an ADSL equipment shall not exceed the limits specified in Table 1.

Table 1 Power Spectral Density and aggregate power limits for ADSL equipment.

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Additional requirements

ADSL equipment should not affect the performance of the analogue PSTN. Reference should also be made to CITC specification AI001"Requirement for equipment which may connect to the Analogue PSTN" in order to understand any additional requirements which apply.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Specification for Equipment connecting to 2.048 Mb/s Digital Leased Line Services

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to terminal equipment which includes interfaces that may be connected to 2.048Mb/s Digital Leased Line connections offered by public network operators in the Kingdom of Saudi Arabia

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Product type	Details/comments
PBX	
Modems	
Routers	
Remote telemetry	
Other equipment directly connecting to analogue Leased Lines	

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

It is recognised that a number of largely equivalent specifications exist for terminal equipment that offers connection to E1 120Ω 2.048 Mb/s services; it is also recognised that a great number of manufacturers continue to reference older ETSI specifications such as TBR 12 and TBR13 for unstructured and unstructured interfaces respectively. Testing should be carried out to ensure compliance with at least one of the following specifications:

TBR12
Business TeleCommunications (BTC);
2 048 kbit/s digital unstructured leased lines (D2048U);
Attachment requirements for terminal equipment interface

TBR 012/A1
Business TeleCommunications (BTC);Open Network Provision (ONP) technical requirements;2 048 kbit/s digital unstructured leased line (D2048U);Attachment requirements for terminal equipment interface

TBR13
Business TeleCommunications (BTC);
2 048 kbit/s digital structured leased lines (D2048S);
Attachment requirements for terminal equipment interface

EN 300 248
Access and Terminals (AT); 2 048 kbit/s digital unstructured leased line (D2048U); Terminal equipment interface

Additional requirements

It must be possible to ground the outer conductor or screen of the coaxial pair or the screen of the symmetrical pair in accordance with ITU-T G.703. Section 9.4.

Where it is intended that a 75Ω interface connects via a Balun to 120Ω services testing should be carried out with the Balun in place.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: DI002
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Date: 11/07/2009 G

Specification for Equipment connecting to 34 Mb/s Digital Leased Line Services

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to terminal equipment which includes interfaces that may be connected to 34Mb/s Digital Leased Line connections offered by public network operators in the Kingdom of Saudi Arabia.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Product type	Details/comments
Routers	
Frame relay equipment	
ATM equipment	
Other equipment directly connecting to analogue Leased Lines	
Routers	

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

It is recognised that a number of largely equivalent specifications exist for terminal equipment that offers connection to E3 34Mbs services; it is also recognised that a great number of manufacturers continue to reference older ETSI specifications such as ETSI TBR 24 for this technology. Testing should be carried out to ensure compliance with either one of the following specifications:

EN 300 689
Access and Terminals (AT); 34Mbit/s digital leased line (D34U and D34S) Terminal equipment interface

TBR 24
Business TeleCommunications (BTC); 34 Mbit/s digital unstructured and structured leased lines (D34U and D34S); Attachment requirements for terminal equipment interface

Additional requirements

No additional requirements exist for equipment offering connection to Analogue leased lines at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: DI003
Revision: Issue 2
Date: 11/07/2009 G

Specification for Equipment connecting to Co-directional G.703 Digital Leased Line Services

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to terminal equipment which includes interfaces that may be connected to G.703 co-directional services offered by public network operators in the Kingdom of Saudi Arabia.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Equipment covered by this specification includes, but is not limited to the interfaces of the following equipment types:

Product type	Details/comments
Routers	
Frame relay equipment	
Other equipment directly connecting to analogue Leased Lines	

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

ITU-T Recommendation G.703
General aspects of digital transmission systems terminal equipments
Physical/Electrical characteristics of Hierarchical Digital Interfaces

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Additional requirements

No additional requirements exist at this time.

Obtaining Technical standards

ITU recommendations can be obtained from the ITU via their web site http://www.itu.int/ a charge is made for these recommendations.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: DI004
Revision: Issue 2
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Specification for Equipment connecting to X.25 Packet Switched Networks

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to terminal equipment which includes interfaces that may be connected to X.25 packet switched services offered by public network operators in the Kingdom of Saudi Arabia.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Equipment covered by this specification includes, but is not limited to the interfaces of the following equipment types:

Product type	Details/comments
X.25	
Other services offering X.21 connections	

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

TBR 2
Attachment requirements for Data Terminal Equipment (DTE)
to connect to Packet Switched Public Data Networks (PSPDNs)
for CCITT Recommendation X.25 interfaces at data ignaling rates up to 1920 kbit/s utilizing interfaces derived from CCITT Recommendations X.21 and X.21 bis

or

ITU-T recommendation X.25 :
Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for Terminals operating in the Packet Mode and connected to Public Data Networks by Dedicated Circuit.

ITU-T Recommendation X.21 :
Interface between Data Terminal Equipment and Data Circuit-terminating equipment for synchronous operation on Public Data Network

ITU-T Recommendation X.21 bis :
Use on Public Data Networks of Data Terminal Equipment (DTE) which is designed for interfacing to Synchronous V-Series Modems

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Additional requirements

For connections to X.25 packet switched networks, the physical interface of the CPE shall conform to either ITU-T Recommendation V.35 or V.24

Other types of interface may be provided to the customer at the discretion of network operator.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

ITU recommendations can be obtained from the ITU via their web site http://www.itu.int/ a charge is made for these recommendations.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: DI005
Revision: Issue 2
Date: 11/07/2009 G

Specification for Equipment connecting to High Speed Serial Interfaces (HSSI)

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to terminal equipment which includes interfaces that may be connected to High Speed Serial Interfaces offered by network operators in the Kingdom of Saudi Arabia.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Equipment covered by this specification includes, but is not limited to the interfaces of the following equipment types:

Product type	Details/comments
X.25	
Frame relay	
Other services offering HSSI connections	

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

ANSI/TIA/EIA-612
Electrical Characteristics for an Interface at Data Signalling Rates up to 52 Mbit/s

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Additional requirements

No additional technical requirements apply at this time.

Obtaining Technical standards

ANSI technical standards may be obtained for cost from the ANSI web site http://webstore.ansi.org/

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: DI006
Revision: Issue 2
Date: 11/07/2009 G

Specification for Equipment connecting to 64Kbit/s Services

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to terminal equipment which includes interfaces that may be connected to 64kbit/s interfaces including multiple 64kbit/s interfaces, offered by public network operators in the Kingdom of Saudi Arabia.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Equipment covered by this specification includes, but is not limited to the interfaces of the following equipment types:

Product type	Details/comments
Frame relay	
N*64kbit/s	
All other services which offer 64Kbit/s interfaces	

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with either of the following specifications:

TBR 014
Business TeleCommunications (BTC);64 kbit/s digital unrestricted leased line with octet integrity (D64U);Attachment requirements for terminal equipment interface

including

TBR 014/A1
Business TeleCommunications (BTC);64 kbit/s digital unrestricted leased line with octet integrity (D64U);Attachment requirements for terminal equipment interface

Or

EN 300 290
Access and Terminals (AT); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Terminal equipment interface

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Additional requirements

No additional technical requirements apply at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: DI007
Revision: Issue 2
Date: 11/07/2009 G

Specification for Equipment connecting to X.21 Services

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to equipment which includes interfaces that may be connected to X.21 connections offered by public network operators in the Kingdom of Saudi Arabia.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Equipment covered by this specification includes, but is not limited to the interfaces of the following equipment types:

Product type	Details/comments
Frame Relay	
X.25	CITC specification DI006 describes X.25 requirements
Other X.21 connections leased lines	

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

ITU-T Recommendation X.21 :
Interface between Data Terminal Equipment and Data Circuit-terminating equipment for synchronous operation on Public Data Network

ITU-T Recommendation X.21 bis :
Use on Public Data Networks of Data Terminal Equipment (DTE) which is designed for interfacing to Synchronous V-Series Modems

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Additional requirements

No additional requirements exist for equipment offering connection to Analogue leased lines at this time.

Obtaining Technical standards

ITU recommendations can be obtained from the ITU via their web site http://www.itu.int/ a charge is made for these recommendations.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: DSL001
Revision: Issue 2
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Specification for Equipment connecting to SHDSL Services

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to terminal equipment which includes interfaces that may be connected to SHDSL services offered by network operators in the Kingdom of Saudi Arabia

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

ETR 152
Transmission and Multiplexing ™; High bit-rate Digital Subscriber Line (HDSL) transmission system on metallic local lines; HDSL core specification and applications for 2 048 kbit/s based access digital sections

TS 101 524-1
Transmission and Multiplexing. Access transmission system on metallic access cables. Symmetrical single pair high bit rate Digital Subscriber Line (SDSL)

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

Additional requirements

No additional technical requirements apply at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: IT001
Revision: Issue 1
Date: 11/07/2009 G

Specification for IT Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to IT equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 55022 / CISPR 22
Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement.

EN 55024 / CISPR 24
Information technology equipment — Immunity characteristics — Limits and methods of measurement.

EN 61000-3-2 / IEC 61000-3-2
Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

EN 61000-3-3 / IEC 61000-3-3
Electromagnetic compatibility (EMC) — Part 3-3: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

EN 61000-3-11 / IEC 61000-3-11
Electromagnetic compatibility (EMC) — Part 3-11: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems — Equipment with rated current ≤ 75 A and subject to conditional connection

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

CENELEC, IEC and CISPR standards may be obtained cost from, or through www.cenelec.org and from www.iec.ch respectively.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: IT002
Revision: Issue 1
Date: 11/07/2009 G

Specification for Voice over IP Equipment (Private usage only)

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Voice over IP Equipment (Private usage only) in the internal network

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

ES 202 737
Speech Processing, Transmission and Quality Aspects (STQ); Transmission requirements for wideband VoIP terminals (handset and headset) from a QoS perspective as perceived by the user

ES 202 738
Speech Processing, Transmission and Quality Aspects (STQ); Transmission requirements for wideband VoIP loud speaking and hands free terminals from a QoS perspective as perceived by the user

ES 202 739
Speech Processing, Transmission and Quality Aspects (STQ); Transmission requirements for wideband VoIP loud speaking and hands free terminals from a QoS perspective as perceived by the user

ES 202 740
Speech Processing, Transmission and Quality Aspects (STQ); Transmission requirements for wideband VoIP loud speaking and hands free terminals from a QoS perspective as perceived by the user

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

Voice over IP is not allowed in the public network, only for private usage.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: IT003
Revision: Issue 1
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Specification for Laser P-P-Links Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Laser P-P-links Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 440
Electromagnetic compatibility and Radio spectrum Matters (ERM);Short range devices;Radio equipment to be used in the 1 GHz to 40 GHz frequency range;Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive.

EN 55022 / CISPR 22
Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement.

EN 60825-2
Safety of optical communication systems

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

CENELEC, IEC and CISPR standards may be obtained cost from, or through www.cenelec.org and from www.iec.ch respectively.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: IT004
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Specification for Fiber Optics Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Fiber Optics

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 60794-1-1
Optical fibre cables - Generic specification.

EN 60794-1-1
Optical fibre cables - Generic specification for Basic optical cable test procedures

EN 60825-2
Safety of optical fibre communication systems

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

CENELEC, IEC and CISPR standards may be obtained cost from, or through www.cenelec.org and from www.iec.ch respectively.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: IT005
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Specification for Receivers Equipment with Internet Support

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Receivers Equipment with Internet Support

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 55022 / CISPR 22
Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement.

EN 55024 / CISPR 24
Information technology equipment — Immunity characteristics — Limits and methods of measurement.

EN 61000-3-2 / IEC 61000-3-2
Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

EN 61000-3-3 / IEC 61000-3-3
Electromagnetic compatibility (EMC) — Part 3-3: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

EN 61000-3-11 / IEC 61000-3-11
Electromagnetic compatibility (EMC) — Part 3-11: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems — Equipment with rated current ≤ 75 A and subject to conditional connection

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

CENELEC, IEC and CISPR standards may be obtained cost from, or through www.cenelec.org and from www.iec.ch respectively.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI001
Revision: Issue 2
Date: 11/07/2009 G

Specification for GSM Handsets, Terminals and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to GSM handsets, terminals and ancillary equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
880 – 890 MHz	8 W e.r.p.	EN 301 511
890 – 915 MHz	8 W e.r.p.	EN 301 511
925 – 935 MHz	8 W e.r.p.	EN 301 511
935 – 942 MHz	8 W e.r.p.	EN 301 511
942 – 960 MHz	8 W e.r.p.	EN 301 511
1710 – 1785 MHz	8 W e.r.p.	EN 301 511
1805 – 1880 MHz	8 W e.r.p.	EN 301 511

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 511
Global system for mobile communications (GSM); Harmonised standard for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under Article 3(2) of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-7
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for GSM handsets, terminals and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI002
Revision: Issue 2
Date: 11/07/2009 G

Specification for GSM Base Station and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to GSM base station and ancillary equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
880 – 890 MHz	30 W e.r.p.	EN 301 502
890 – 915 MHz	30 W e.r.p.	EN 301 502
925 – 935 MHz	30 W e.r.p.	EN 301 502
935 – 942 MHz	30 W e.r.p.	EN 301 502
942 – 960 MHz	30 W e.r.p.	EN 301 502
1710 – 1785 MHz	30 W e.r.p.	EN 301 502
1805 – 1880 MHz	30 W e.r.p.	EN 301 502

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-8
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 8: Specific conditions for GSM base stations

EN 301 502
Harmonised EN for global system for mobile communications (GSM); Base station and repeater equipment covering essential requirements under Article 3(2) of the R&TTE directive

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI003
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Specification for Paging Terminals and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Paging Terminals and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Characteristics of current one way Paging formats

Protocol	Data Rate	Channel	Modulation
FLEX	6400 bps	25 kHz	2 FSK, 4 FSK
ERMES	6250 pps	25 kHz	4 FSK

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
136.0000 –174.0000 MHz	*	EN 300 224
169.4125 - 169.8125 MHz	*	EN 300 133
440.0000 – 470.0000 MHz	*	EN 300 224

* Frequency bands will be allocated for use by CITC's Spectrum Affairs department on a case-by-case basis

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 133-4
Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Enhanced Radio Messaging System (ERMES);Part 4: Air interface specification

EN 300 224-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) — On-site paging service - Part 2: Harmonized EN under Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 2: Specific condition for Radio Paging Equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General

In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for Paging terminals and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI004
Revision: Issue 2
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Specification for Paging Base Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Paging Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Characteristics of current one way Paging formats

Protocol	Data Rate	Channel	Modulation
FLEX	6400 bps	25 kHz	2 FSK, 4 FSK
ERMES	6250 pps	25 kHz	4 FSK

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
136.0000 –174.0000 MHz	100W	EN 300 224
169.4125 - 169.8125 MHz	100W	EN 300 133
440.0000 – 470.0000 MHz	100W	EN 300 224

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 133-4
Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Enhanced Radio Messaging System (ERMES);Part 4: Air interface specification

EN 300 224-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) — On-site paging service - Part 2: Harmonized EN under Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 2: Specific condition for Radio Paging Equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General

In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for Paging base stations and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI009
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Specification for Analogue PMR handsets and ancillary equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Analogue PMR Handsets and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Certain frequencies in the136-174 MHz frequency band and in the 400 MHz frequency band may be made available for use by Analogue PMR equipment. Frequencies will be assigned on a case-by-case basis for PMR applications.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as applicable:

EN 300 086-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 300 113-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 300 296-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; radio equipment using integral antennas intended primarily for analogue speech; Part 2: Harmonised EN covering essential requirements under Article 3.2 of the R&TTE Directive

EN 300 390-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio Equipment intended for the transmission of data (and speech) and using an integral antenna. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 300 471-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Access protocol, occupation rules and corresponding technical characteristics of radio equipment for the transmission of data on shared channels. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-5
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech)

FCC, CFR Title 47, Part 90, Private Land Mobile Radio Services (specific to US originated equipment only)

ANSI/TIA/EIA 603 (specific to US originated equipment only)
Land mobile FM or PM communication equipment, measurement and performance standard

MPT 1327
A signalling standard for Trunked Private Land Mobile Radio Systems

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for Analogue PMR handsets and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards, FCC rules and MPT 1327 may be obtained free of charge for individual use from the ETSI web site www.etsi.org or through www.fcc.gov and from www.ofcom.org.uk. ANSI technical standards may be obtained at cost from http://webstor.ansi.org.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI010
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Specification for Analogue PMR Base Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Analogue PMR Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Certain frequencies in the136-174 MHz frequency band and in the 400 MHz frequency band may be made available for use by Analogue PMR equipment. Frequencies will be assigned on a case-by-case basis for PMR applications.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 300 086-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 300 113-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 300 471-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Access protocol, occupation rules and corresponding technical characteristics of radio equipment for the transmission of data on shared channels. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-5
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech)

FCC, CFR Title 47, Part 90, Private Land Mobile Radio Services (specific to US originated equipment only)

ANSI/TIA/EIA 603 (specific to US originated equipment only)
Land mobile FM or PM communication equipment, measurement and performance standard

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General

In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

Additional requirements may exist for the use of Analogue PMR base stations and ancillary equipment. A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ETSI technical standards, FCC rules may be obtained free of charge for individual use from the ETSI web site www.etsi.org or through www.fcc.gov. ANSI technical standards may be obtained at cost from http://webstor.ansi.org.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI011
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Specification for TETRA Handsets and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to TETRA Handsets and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
350 MHz - 370 MHz (Up-link)		EN 303 035
380 MHz - 385 MHz (Up-link)		EN 303 035
385 MHz . 390 MHz (Up-link)		EN 303 035
410 MHz – 420 MHz (Up-link)	30 W (Power Class 1)	EN 303 035
450 MHz – 460 MHz (Up-link)	17,5 W (Power Class 1L)	EN 303 035
870 MHz – 876 MHz (Up-link)	10 W (Power Class 2)	EN 303 035
350 MHz - 370 MHz (Downlink)		EN 303 035
390 MHz – 395 MHz (Downlink)	5,6 W (Power Class 2L)	EN 303 035
395 MHz – 399.99 MHz (Downlink)	3 W (Power Class 3)	EN 303 035
420 MHz – 430 MHz (Downlink)	1,8 W (Power Class 3L)	EN 303 035
460 MHz – 470 MHz (Downlink)		EN 303 035
915 MHz – 921 MHz (Downlink)		EN 303 035

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 303 035-1
Harmonized EN for TETRA equipment covering essential requirements under Article 3(2) of the R&TTE Directive — Part 1: Voice plus Data (V+D)

EN 303 035-2
Terrestrial Trunked Radio (TETRA); Harmonised EN for TETRA equipment covering essential requirements under article 3.2 of the R&TTE Directive;
Part 2: Direct Mode Operation

EN 301 489-1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-18
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Comp ability (EMC) standard for radio equipment and services; Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for TETRA handsets and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI012
Revision: Issue 2
Date: 11/07/2009 G

Specification for TETRA Base Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to TETRA Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
350 MHz - 370 MHz (Up-link)	**Nominal power of**	EN 303 035
380 MHz - 385 MHz (Up-link)	**BS transmitters**	EN 300 392
385 MHz . 390 MHz (Up-link)		
410 MHz – 420 MHz (Up-link)	40 W (Power Class 1)	
450 MHz – 460 MHz (Up-link)	25 W (Power Class 2)	
870 MHz – 876 MHz (Up-link)	15 W (Power Class 3)	
350 MHz - 370 MHz (Downlink)		
390 MHz – 395 MHz (Downlink)	10 W (Power Class 4)	
395 MHz – 399.99 MHz (Downlink)	6,3 W (Power Class 5)	
420 MHz – 430 MHz (Downlink)	4 W (Power Class 6)	
460 MHz – 470 MHz (Downlink)	2,5 W (Power Class 7)	
915 MHz – 921 MHz (Downlink)	1,6 W (Power Class 8)	
	1 W (Power Class 9)	
	0,6 W (Power Class 10)	

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 303 035-1
Harmonized EN for TETRA equipment covering essential requirements under Article 3(2) of the R&TTE Directive — Part 1: Voice plus Data (V+D)

EN 303 035-2
Terrestrial Trunked Radio (TETRA); Harmonised EN for TETRA equipment covering essential requirements under article 3.2 of the R&TTE Directive;
Part 2: Direct Mode Operation

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-18
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Comp ability (EMC) standard for radio equipment and services; Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

Additional requirements exist for the use of TETRA base stations and ancillary equipment. A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI013
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Specification for TETRAPOL Handsets and Ancillary Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to TETRAPOL Handsets and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
30 MHz – 1000 MHz (Tx / Rx) *1)	Rated carrier power (conducted) +/- 1,5 dB under normal conditions + 2,0 dB under extreme conditions - 3,0 dB under extreme conditions	300 086 300 113

*1) Certain frequency bands in the range 30 MHz – 1000 MHz may be assigned for use by TETRAPOL handsets. CITC spectrum affairs department will assign frequencies on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 086-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 300 113-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.

EN 301 489-5
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech)

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for TETRAPOL handsets and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Specification for TETRAPOL Base Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to TETRAPOL Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
30 MHz – 1000 MHz (Tx / Rx) *1)	Rated carrier power (conducted) +/- 1,5 dB under normal conditions + 2,0 dB under extreme conditions - 3,0 dB under extreme conditions	300 086 300 113

*1) Certain frequency bands in the range 30 MHz – 1000 MHz may be assigned for use by TETRAPOL base stations. CITC spectrum affairs department will assign frequencies on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 086-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 300 113-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-5
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech)

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Specification for APCO 25 Handsets and Ancillary Equipment

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Contents

This document comprises the following sections:

Scope

This document applies to APCO 25 Handsets and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
140 MHz – 800 MHz *1)		FCC, CFR Title 47, Part 90 ANSI TIA EIA 603

*1) Certain frequency bands in the 140 – 800 MHz band may be assigned for use by APCO 25 equipment. CITC spectrum affairs department will assign frequencies on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-5
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Special conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech)

FCC, CFR Title 47, Part 90, Private Land Mobile Radio Services (specific to US originated equipment only)

ANSI/TIA/EIA 603 (specific to US originated equipment only)
Land mobile FM or PM communication equipment, measurement and performance standard

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for APCO 25 handsets and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards and FCC rules may be obtained free of charge for individual use from the ETSI web site www.etsi.org and through www.fcc.gov .

ANSI technical standards may be obtained for cost from the ANSI web site http://webstore.ansi.org/

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
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CITC Technical Specification

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Specification for APCO 25 Base Stations and Ancillary Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to APCO 25 Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
140 MHz – 800 MHz *1)		FCC, CFR Title 47, Part 90 ANSI TIA EIA 603

*1) Certain frequency bands in the 140 – 800 MHz band may be assigned for use by APCO 25 base station. CITC spectrum affairs department will assign frequencies on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-5
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio and ancillary equipment (speech and non-speech)

FCC, CFR Title 47, Part 90, Private Land Mobile Radio Services (specific to US originated equipment only)

ANSI/TIA/EIA 603 (specific to US originated equipment only)
Land mobile FM or PM communication equipment, measurement and performance standard

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards and FCC rules may be obtained free of charge for individual use from the ETSI web site www.etsi.org and through www.fcc.gov .

ANSI technical standards may be obtained for cost from the ANSI web site http://webstore.ansi.org/

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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CITC Technical Specification

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Specification for iDEN Handsets and Ancillary Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to iDEN Handsets and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
806 MHz - 821 MHz 821 MHz - 824 MHz 851 MHz – 866 MHz 866 MHz – 869 MHz		FCC, CFR Title 47, Part 90, Private Land Mobile Radio Services ANSI TIA EIA 603

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-5
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio and ancillary equipment (speech and non-speech)

FCC, CFR Title 47, Part 90, Private Land Mobile Radio Services (specific to US originated equipment only)

ANSI/TIA/EIA 603 (specific to US originated equipment only)
Land mobile FM or PM communication equipment, measurement and performance standard

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for iDEN handsets and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards and FCC rules may be obtained free of charge for individual use from the ETSI web site www.etsi.org and through www.fcc.gov .

ANSI technical standards may be obtained for cost from the ANSI web site http://webstore.ansi.org/.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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CITC Technical Specification

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Specification for iDEN Base Stations and Ancillary Equipment

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Contents

This document comprises the following sections:

Scope

This document applies to iDEN Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
806 MHz - 821 MHz 821 MHz - 824 MHz 851 MHz – 866 MHz 866 MHz – 869 MHz		FCC, CFR Title 47, Part 90 ANSI TIA EIA 603

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-5
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio and ancillary equipment (speech and non-speech)

FCC, CFR Title 47, Part 90, Private Land Mobile Radio Services (specific to US originated equipment only)

ANSI/TIA/EIA 603 (specific to US originated equipment only)
Land mobile FM or PM communication equipment, measurement and performance standard

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards and FCC rules may be obtained free of charge for individual use from the ETSI web site www.etsi.org and through www.fcc.gov .

ANSI technical standards may be obtained for cost from the ANSI web site http://webstore.ansi.org/.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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CITC Technical Specification

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Specification for Citizens' Band Radio and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Citizens' Band Radio and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
26,965 MHz – 27,405 MHz	The transmitter carrier power, or the effective radiated power of equipment with an integral antenna, shall not exceed 4 watts.	EN 300135

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 135-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Angle-modulated Citizens Band radio equipment (CEPT PR 27 Radio Equipment). Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-13
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 13: Specific condition for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for Citizens' Band radio and ancillary equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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هيئة الاتصالات وتقنية المعلومات
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CITC Technical Specification

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Specification for Amateur Radio and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Amateur Radio and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

1.810 – 1.85 MHz; 7.000 – 7.200 MHz; 14.000 – 14.350 MHz;
18.068 – 18.168 MHz; 21.000 – 21.450 MHz; 24.890 – 24.990 MHz;
28.000 – 29.700 MHz; 144.00 – 146.00 MHz; 24.000 – 24.050 GHz,
47.000 – 47.200 GHz, 134.000 – 136.00 GHz, 248.000 – 250.000 GHz

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 783-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Commercially available amateur radio equipment; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-15
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 15: Specific conditions for commercially available amateur radio equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.
Detail of additional requirements which apply to the use of amateur radio equipment can be found on the CITC website www.citc.gov.sa under the spectrum management heading.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
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CITC Technical Specification

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Specification for Mobile Satellite Service (MSS) <1GHz and Ancillary Equipment

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Contents

This document comprises the following sections:

Scope

This document applies to Mobile Satellite Service (MSS) <1GHz and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Certain frequency bands below 1 GHz may be assigned for use by ground based mobile satellite service (MSS) operating in the Kingdom. Frequencies will be assigned on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 721
Satellite earth stations and systems (SES); Harmonised EN for mobile earth stations (MES) providing low bit rate data communications (LBRDC) using low earth orbiting (LEO) satellites operating below 1GHz covering essential requirements under Article 3(2) of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-20
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific condition for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

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هيئة الاتصالات وتقنية المعلومات
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CITC Technical Specification

Document Number: RI023
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Specification for Mobile satellite Service (MSS) Equipment > 1GHz and Ancillary Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Mobile satellite Service (MSS) Equipment > 1GHz and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Certain frequencies within the L and S frequency bands (1.5, 1.6, 2.0 and 2.4 GHz) and within the Ku frequency band (11/12/14 GHz)may be assigned for use by ground based mobile satellite service (MSS) operating. Frequencies will be assigned on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 301 426
Satellite earth stations and Systems (SES); Harmonised EN for low data rate land mobile satellite earth stations (LMES) operating in the 1.5/1.6 GHz frequency bands covering essential requirements under Article 3(2) of the R&TTE directive

EN 301 427
Satellite Earth stations and Systems (SES); Harmonised EN for low data rate land mobile satellite earth stations (LMES) operating in the 11/12/14 GHz frequency bands covering essential requirements under Article 3(2) of the R&TTE directive

EN 301 444
Satellite Earth stations and Systems (SES); Harmonised EN for Land Mobile Earth Stations (LMES) operating in the 1.5 GHz and 1.6 GHz bands providing voice and /or data communications covering essential requirements under article 3.2 of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-20
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific condition for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Specification for SPCN Mobile Satellite Service (MSS) and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to SPCN Mobile Satellite Service (MSS) and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Certain frequencies within the L and S frequency bands (1.5, 1.6, 2.0 and 2.4 GHz)) may be assigned for use by ground based mobile SPCN satellite services (MSS) operating in the Kingdom. CITC spectrum affairs department will assign frequencies on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 441
Satellite Earth stations and Systems (SES); Harmonised EN for Mobile Earth Stations (MES), including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 1.6/2.4 GHz bands under the Mobile Satellite Service (MSS) covering essential requirements under article 3.2 of the R&TTE directive

EN 301 442
Satellite Earth stations and Systems (SES); Harmonised EN for Mobile Earth Stations (MES), including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 2.0 GHz bands under the Mobile Satellite Service (MSS) covering essential requirements under article 3.2 of the R&TTE directive

EN 301 681
Satellite Earth stations and Systems (SES); Harmonised EN for Mobile Earth Stations (MES) of geostationary mobile satellite systems, including handheld earth stations, for satellite personal communications networks (S-PCN) in the 1.5/1.6 GHz bands under the Mobile Satellite Service (MSS) covering essential requirements under article 3(2) of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-20
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific condition for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

Additional requirements may exist for the operation of ground-based equipment used to provide mobile satellite service (MSS) which operating at frequencies within the Ku band (11/12/14 GHz). A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Revision: Issue 2
Date: 11/07/2009 G

Specification for V-SAT Equipment and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to V-SAT Equipment and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

The following frequency bands have been allocated for use by V-SAT transceiver equipment in L – band (1.5/1.6 GHz), C - band (4 GHz, 6 GHz) and Ku - band (11 GHz, 12 GHz and 14 GHz)

Frequencies within these bands will be assigned by CITC as appropriate.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 426
Satellite earth stations and Systems (SES); Harmonised EN for low data rate land mobile satellite earth stations (LMES) operating in the 1.5/1.6 GHz frequency bands covering essential requirements under Article 3(2) of the R&TTE directive

EN 301 443
Satellite Earth stations and Systems (SES); Harmonised EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4GHz and 6GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive

EN 301 428
Satellite Earth stations and Systems (SES); Harmonised EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit/receive or receive-only satellite earth stations operating in the 11/12/14 GHz frequency bands covering essential requirements under article 3(2) of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-12
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal (VSAT), Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GHz in the Fixed Satellite Service (FSS)

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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CITC Technical Specification

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Revision: Issue 2
Date: 11/07/2009 G

Specification for Satellite News Gathering (SNG) Transportabele Earth Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Satellite News Gathering (SNG) Transportabele Earth Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Certain frequencies within the Ku-band (11, 12, 13 and 14 GHz) may be assigned for use by Mobile Earth Stations (MES), Satellite News Gathering (SNG) equipment. Frequencies will be assigned on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 430
Satellite Earth stations and Stations (SES); Harmonised EN for Satellite News Gathering Transportable Earth Stations (SNG TES) operating in the 11-12/13-14 GHz frequency bands covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-20
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

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CITC Technical Specification

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Specification for SIT and SUT Terminals and Ancillary Equipment

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Contents

This document comprises the following sections:

Scope

This document applies to SIT and SUT Terminals and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Certain frequency bands may be assigned for use by Fixed Earth Stations (FES). Frequencies will be assigned on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 459
Satellite Earth stations and Systems (SES); Harmonised EN for Satellite Interactive Terminal (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 29.5 – 30.0 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive

EN 301 360
Satellite Earth stations and Systems (SES); Harmonised EN for Satellite Interactive Terminal (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 27.5 – 29.5 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-12
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal (VSAT), Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GHz in the Fixed Satellite Service (FSS)

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

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CITC Technical Specification

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Specification for Radio MF (AM) Broadcast Services Equipment and Ancillary Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Radio MF (AM) Broadcast Services Equipment and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Frequency will be allocated for use by Radio MF (AM) broadcast equipment once a permission has been obtained from the Ministry of Information and Culture.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 302 017-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); transmitting equipment for the Amplitude Modulated (AM) sound broadcasting service; Part 2: Harmonised EN under article 3.2 of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-11
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 11: Specific conditions for terrestrial sounds broadcasting service transmitters

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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CITC Technical Specification

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Specification for Radio MF (FM) Broadcast Services Equipment and Ancillary Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Radio MF (FM) Broadcast Services Equipment and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Frequency bands will be allocated for use by Radio VHF (FM) broadcast equipment once a permission has been obtained from the Ministry of Information and Culture.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 302 018-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); transmitting equipment for the Frequency Modulated (FM) radio broadcast service; Part 2: Harmonised EN under article 3.2 of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-11
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 11: Specific conditions for terrestrial sounds broadcasting service transmitters

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

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CITC Technical Specification

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Specification for Point to Point (PP) Radio Fixed Links

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Point to Point (PP) Radio Fixed Links

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Frequency bands will be allocated for use by fixed links by CITC's Spectrum Affairs department on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 302 217-2-2
Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 2 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive for digital systems operating in frequency bands where frequency co-ordination is applied

EN 302 217-3
Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 3: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive for equipment operating in frequency bands where frequency co-ordination is applied

EN 302 217-4-2
Fixed Radio Systems — Characteristics and requirements for point-to-point equipment and antennas — Part 4-2: Harmonized EN covering essential requirements of Article 3(2) of R&TTE Directive for antennas

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-4
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment and services

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

Additional requirements may exist for the use of fixed links and ancillary equipment at this time. A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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هيئة الاتصالات وتقنية المعلومات
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CITC Technical Specification

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Specification for Multipoint (PMP) Radio Fixed Links

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Multipoint (PMP) Radio Fixed Links

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Frequency bands will be allocated for use by fixed links by CITC's Spectrum Affairs department on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 302 326-2
Fixed Radio Systems — Multipoint Equipment and Antennas - Part 2: Harmonised EN covering the essential requirements of Article 3(2) of the R&TTE Directive for Multipoint Radio Equipment

EN 302 326-3
Fixed Radio Systems — Multipoint equipment and antennas - Part 3: Harmonised EN covering the essential requirements of Article 3(2) of the R&TTE Directive for Multipoint Radio Antennas

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-4
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment and services

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

Additional requirements may exist for the use of fixed links and ancillary equipment at this time. A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

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CITC Technical Specification

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Specification for Wireless Local Loop Subscriber Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Wireless Local Loop Subscriber Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

The following frequency band has been allocated for wireless local loop applications.

3.400 – 3.600 GHz

Where other frequency bands are being considered for use in wireless local loop applications, Frequencies will be assigned on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

A number of technologies may be used to provide Wireless Local Loop (WLL) services including GSM, DECT and point-to-point. Where this is the case, the equipment should comply with the requirements of the specification appropriate to the technology.

Testing should also be carried out to ensure compliance with the following specifications:

EN 302 217-2-2
Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 2 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive for digital systems operating in frequency bands where frequency co-ordination is applied

EN 302 217-3
Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 3: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive for equipment operating in frequency bands where frequency co-ordination is applied

EN 302 217-4-2
Fixed Radio Systems — Characteristics and requirements for point-to-point equipment and antennas — Part 4-2: Harmonized EN covering essential requirements of Article 3(2) of R&TTE Directive for antennas

EN 302 326-2
Fixed Radio Systems — Multipoint Equipment and Antennas - Part 2: Harmonised EN covering the essential requirements of Article 3(2) of the R&TTE Directive for Multipoint Radio Equipment

EN 302 326-3
Fixed Radio Systems — Multipoint equipment and antennas - Part 3: Harmonised EN covering the essential requirements of Article 3(2) of the R&TTE Directive for Multipoint Radio Antennas

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-4
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment and services

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for Wireless Local Loop Subscriber Equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

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CITC Technical Specification

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Specification for Wireless Local Loop Base Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Wireless Local Loop Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

The following frequency band has been allocated for wireless local loop applications in the Kingdom.

3.400 – 3.600 GHz

Where other frequency bands are being considered for use in wireless local loop applications, Frequencies will be assigned on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 302 217-2-2
Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 2 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive for digital systems operating in frequency bands where frequency co-ordination is applied

EN 302 217-3
Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 3: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive for equipment operating in frequency bands where frequency co-ordination is applied

EN 302 217-4-2
Fixed Radio Systems — Characteristics and requirements for point-to-point equipment and antennas — Part 4-2: Harmonized EN covering essential requirements of Article 3(2) of R&TTE Directive for antennas

EN 302 326-2
Fixed Radio Systems — Multipoint Equipment and Antennas - Part 2: Harmonised EN covering the essential requirements of Article 3(2) of the R&TTE Directive for Multipoint Radio Equipment

EN 302 326-3
Fixed Radio Systems — Multipoint equipment and antennas - Part 3: Harmonised EN covering the essential requirements of Article 3(2) of the R&TTE Directive for Multipoint Radio Antennas

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-4
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment and services

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI035
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Specification for Broadband Wireless Access Subscriber Equipment, Base Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Broadband Wireless Access Subscriber Equipment, Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

The following frequency bands have been allocated for use by broadband wireless access equipment in the Kingdom:

2.400 – 2.485 GHz;
5.150 – 5.350 GHz;
5.725 – 5.825 GHz.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 300 328
Electromagnetic compatibility and Radio spectrum Matters (ERM) .- Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques - Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 893
Broadband Radio Access Networks (BRAN); 5 GHz High Performance RLAN; Harmonised EN covering essential requirements of article 3.2 of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment.

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

All equipments must comply with the Wireless Local Area Networks Regulation. See http://www.citc.gov.sa/ for details.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
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CITC Technical Specification

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Specification for Wireless Telemetry Equipment

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Contents

This document comprises the following sections:

Scope

This document applies to Wireless Telemetry Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
6765 - 6795 kHz	42 dBµA/m @10m	EN 300 330
13.553 - 13.567 MHz	42 dBµA/m @10m	EN 300 330
26.957 - 27.283 MHz	42 dBµA/m @10m 10 mW e.r.p.	EN 300 330 EN 300 220
40.660 - 40.700 MHz	10 mW e.r.p.	EN 300 220
315.000	10 mW e.r.p.	EN 300 220
433.050 - 434.790 MHz	10 mW e.r.p.	EN 300 220
433.050 - 434.790 MHz	1 mW e.r.p. 13 dBm/10 kHz	EN 300 220
434.040 - 434.790 MHz	10 mW e.r.p.	EN 300 220
863.000 - 870.000 MHz	≤25 mW e.r.p.	EN 300 220
(Subbands for Alarms excluded)	≤25 mW e.r.p.	EN 300 220
	≤25 mW e.r.p.	EN 300 220
868.000 - 868.600 MHz	≤25 mW e.r.p.	EN 300 220
868.700 - 869.200 MHz	≤25 mW e.r.p.	EN 300 220
869.400 - 869.650 MHz	≤500 mW e.r.p.	EN 300 220
869.700 - 870.000 MHz	≤5 mW e.r.p.	EN 300 220
2400 - 2483.5 MHz	10 mW e.i.r.p.	EN 300 440
5725 - 5875 MHz	25 mW e.i.r.p.	EN 300 440
24.00 – 24.25 GHz	100 mW e.i.r.p.	EN 300 440
122 - 123 GHz	100 mW e.i.r.p.	EN 300 440

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 300 220-2

Electromagnetic compatibility and Radio spectrum Matters (ERM) — Short Range Devices (SRD) – Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW - Part 2: Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 300 330-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD) — Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz - Part 2: Harmonized EN under Article 3(2) of the R&TTE Directive

EN 300 440-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Short range devices - Radio equipment to be used in the 1 GHz to 40 GHz frequency range - Part 2: Harmonized EN covering essential requirements of Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI038
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Specification for Analogue Cordless Telephones, Base Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Analogue Cordless Telephones, Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequencies (in MHz) to, cordless telephones (analogue) handsets and base stations in the Kingdom:

Base station transmission

43.720	43.740	43.820	43.840	43.920
43.960	44.120	44.160	44.180	44.200
44.320	44.360	44.400	44.460	44.480
46.610	46.630	46.670	46.670	46.730
46.770	46.830	46.870	46.870	46.970

Handset transmission

43.270	43.740	43.820	43.840	43.920
43.960	44.120	44.160	44.180	44.200
44.320	44.360	44.400	44.460	44.480
46.610	46.630	46.670	46.670	46.730
46.770	46.830	46.870	46.870	46.970

Each product must use frequencies from at least four frequency groups. The product should use an equal proportion of the use of frequencies from each group.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 796
Electromagnetic compatibility and Radio spectrum Matters (ERM) - Harmonized EN for CT1 and CT1+ cordless telephone equipment covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 797
Electromagnetic compatibility and Radio spectrum Matters (ERM) - Harmonized EN for CT2 cordless telephone equipment covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-10
Electromagnetic compatibility and Radio spectrum Matters (ERM) - Electromagnetic Compatibility (EMC) standard for radio equipment and services - Part 10: Specific conditions for First (CT1 and CT1+) and Second Generation Cordless Telephone (CT2) equipment

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for use of cordless telephones (analogue), base stations, handsets and ancillary equipment which complies with the requirements of this specification.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI040
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Specification for DECT Cordless Telephones Handsets and ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to DECT Cordless Telephones Handsets and ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
1880 – 1900 MHz	250 mW e.i.r.p	EN 301 406

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 301 406
Digital Enhanced Cordless Telecommunications (DECT); Harmonised EN for Digital Enhanced Cordless Telecommunications (DECT) covering essential requirements under Article 3(2) of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-6
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for use of DECT cordless handsets and ancillary equipment which complies with the requirements of this specification.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
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CITC Technical Specification

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Specification for DECT Base Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to DECT Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
1880 – 1900 MHz	250 mW e.i.r.p	EN 301 406

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 406
Digital Enhanced Cordless Telecommunications (DECT); Harmonised EN for Digital Enhanced Cordless Telecommunications (DECT) covering essential requirements under Article 3(2) of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-6
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

DECT base stations must also comply with the requirements applicable to its wired interfaces.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
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CITC Technical Specification

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Specification for Radio Microphones/In-Ear Monitoring and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Radio Microphones/In-Ear Monitoring and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
29.7 - 47.0 MHz	10 mW e.r.p.	EN 300 422
173.965 - 174.015 MHz	2 mW e.r.p	EN 300 422
863 - 865 MHz	10 mW e.r.p.	EN 300 422 EN 301 357
174 - 216 MHz	50 mW e.r.p.	EN 300 422
470 - 862 MHz	50 mW e.r.p.	EN 300 422
1785 - 1795 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	EN 300 422 EN 301 840
1795 - 1800 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	EN 300 422 EN 301 840

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as applicable:

EN 300 422-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 2: Harmonized EN covering essential requirements under the R&TTE directive

EN 301 357-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Cordless audio devices in the range 25 MHz to 2 000 MHz; Consumer radio microphones and in-ear monitoring systems operating in the CEPT harmonised band 863 MHz to 865 MHz; Part 2: Harmonized EN covering essential requirements under the R&TTE directive

EN 301 840-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Digital radio microphones operating in the CEPT harmonised band 1 785 MHz to 1 800 MHz; Part 2: Harmonised EN covering essential requirements under the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-9
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 9 Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Additional requirements

With the exception of hearing aid applications for handicapped, which may be used indoors or outdoors, the use of all other equipment restricted to indoor use only. It is not necessary to obtain a licence for hearing aid applications.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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هيئة الاتصالات وتقنية المعلومات
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CITC Technical Specification

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Specification for Wideband Data Transmission Systems and Ancillary Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Wideband Data Transmission Systems and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
2400.0-2483.5 MHz	100 mW e.i.r.p.	EN 300 328
5150 -5250 MHz	200 mW e.i.r.p. Max mean	EN 301 893
5250 – 5350 MHz	200 mW e.i.r.p. Max mean	EN 301 893
5470 – 5725 MHz	1000 mW e.i.r.p. Max mean	EN 301 893
5470 - 5825 MHz	25 mW e.i.r.p. Max mean	EN 300 440

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 328
Electromagnetic compatibility and Radio spectrum Matters (ERM) .- Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques - Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 893
Broadband Radio Access Networks (BRAN);5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment.

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Additional requirements

All equipments must comply with the Wireless Local Area Networks Regulation. See http://www.citc.gov.sa/ for details.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

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CITC Technical Specification

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Specification for Detection of Movement Equipment, Tanks Level Probing Radar Applications and Ancillary Equipment (Radiodetermination Applications)

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Detection of Movement Equipment, Tanks Level Probing Radar Applications and Ancillary Equipment (Radiodetermination Applications)

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification for use by detection of movement applications:

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
2400 – 2483.5 MHz	25 mW	EN 300 440
9200 – 9500 MHz	25 mW	EN 300 440
9500 - 9975 MHz	25 mW	EN 300 440
10.5 – 10.6 GHz	500 mW	EN 300 440
13.4 – 14.0 GHz	25 mW	EN 300 440
24.05 – 24.25 GHz	100 mW	EN 300 440

2.400 – 2.4835 GHz, 9.2 – 9.5 GHz, 9.5 – 9.975 GHz, 10.5 – 10.6 GHz, 13.4 – 14.0 GHz, 24.05 – 24.25 GHz

Following table is giving information on frequency bands, maximum output power and applicable specification for use by Tank Level Probing Radar (TLPR):

Frequency Band	Power or Magnetic Field	ETSI Standard
4.5 – 7.0 GHz	-41.3 dBm/MHz*	EN 302 372
8.5 - 10.6 GHz	-41.3 dBm/MHz*	EN 302 372
24.05 - 27.00 GHz	-41.3 dBm/MHz*	EN 302 372
57 - 64 GHz	-41.3 dBm/MHz*	EN 302 372
75 - 85 GHz	-41.3 dBm/MHz*	EN 302 372

(*) The power limit is the radiated emission outside an enclosed tank structure. The maximum emission inside an enclosed tank structure is given in EN 302 372.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 440-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN under Article 3.2 of the R&TTE Directive

EN 302 372-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Equipment for Detection and Movement; Tanks Level Probing Radar (TLPR) operating in the frequency bands 5.8, 10, 25, 61 and 77 GHz; Part 2: Harmonized EN under Article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz.

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Additional requirements

There are no additional requirements exist for the use of radio interfaces used in detection of movement applications.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI049
Revision: Issue 2
Date: 11/07/2009 G

Specification for Road Transport, Traffic Telematics and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Road Transport, Traffic Telematics and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G.

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
5.795 – 5.805 GHz	2 W e.i.r.p 8 W e.i.r.p.	EN 300 674
5.805 – 5.815 GHz	2 W e.i.r.p 8 W e.i.r.p.	EN 300 674 ES 200 674
24.05 – 24.25 GHz	≤ 20 dBm e.i.r.p.	EN 302 288
63 – 64 GHz*	40 dBm e.i.r.p.	Under develpment
76 – 77 GHz	55 dBm peak	EN 301 091

The use of 8 W e.i.r.p. allows for 1 Mbit/s in accordance with ETSI standard ES 200 674-1.
2W e.i.r.p. allows for 500 kbit/s downlink and 250 kbit/s uplink in accordance with EN 300 674-1 and for low data rates (31 kbit/s) in accordance with EN 300 674-2.

* This band is reserved for Intelligent Transport System (ITS). The decision to harmonise the use of the 63-64 GHz for ITS is still not finalized. (see. ECC/DEC/(08)GG).

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 300 674-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT); Dedicated Short Range Communication (DSRC) transmission equipment (500 kbit/s / 250 kbit/s) operating in the 5,8 GHz Industrial, Scientific and Medical (ISM) band; Part 2: Harmonized EN under Article 3.2 of the R&TTE Directive; Sub-part 1: Requirements for the Road Side Units (RSU)

EN 301 091-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT) radar equipment operating in the 76 GHz to 77 GHz range; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

EN 302 288-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices - Road Transport and Traffic Telematics (RTTT) - Short range radar equipment operating in the 24 GHz range - Part 2: Harmonized EN covering essential requirements of Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website..

Document History

Description	Status	Data
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	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Specification for Inductive Applications and Ancillary Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Inductive Applications and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
9 -59.750 kHz	72 dBµA/m at 10m	EN 300 330-2
59.750-60.250 kHz	42 dBµA/m at 10m	EN 300 330-2
60.250-70.000 kHz	69 dBµA/m at 10m	EN 300 330-2
70-119 kHz	42 dBµA/m at 10m	EN 300 330-2
119-135 kHz	66 dBµA/m at 10m	EN 300 330-2
135-140 kHz	42 dBµA/m at 10m	EN 300 330-2
140-148.5 kHz	37.7 dBµA/m at 10m	EN 300 330-2
6765-6795 kHz	42 dBµA/m at 10m	EN 300 330-2
7400-8800 kHz	9 dBµA/m at 10m	EN 300 330-2
13.553-13.567 MHz	42 dBµA/m at 10m	EN 302 291-2
13.553-13.567 MHz	60 dBµA/m at 10m*	EN 302 291-2
26.957-27.283 MHz	42 dBµA/m at 10m	EN 300 330-2
3155-3400 kHz	13.5 dBµA/m at 10m	EN 300 330-2

* For RFID (Radio Frequency Identification) and EAS (Electronic Article Surveillance) only.
** For RFID only.

9.00 – 59.750 KHz, 59.750 – 60.250 KHz, 60.250 – 70.000 KHz, 70.000 – 119.00 KHz, 119.00 – 135.00 KHz, 135.00 – 140.00 KHz, 140.00 – 148.50 KHz, 3.155 – 3.400 MHz, 6.765 – 6.795 MHz, 7.400 – 8.800 MHz, 13.553 – 13.567 MHz, 26.957 – 27.283 MHz

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 302 291-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Close Range Inductive Data Communication equipment operating at 13,56 MHz; Part 2: Harmonised EN under Article 3.2 of the R&TTE Directive

EN 300 330-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Additional requirements

There are no additional requirements exist for the use of inductive applications and ancillary equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

This publication is a translation in case of divergence; the original Arabic text shall prevail.

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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Specification for Ground and Airbourne Model Control Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to ground and airborne model control equipment.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
26.995, 27.045, 27.095, 27.145, 27.195 MHz	100 mW e.r.p.	EN 300 220
34.995-35.225 MHz*	100 mW e.r.p.	EN 300 220
40.665, 40.675, 40.685, 40.695 MHz	100 mW e.r.p.	EN 300 220

* Airborne only.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 220-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under Article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used. Use of these equipments may require coordination with relevant agencies.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI052
Revision: Issue 2
Date: 11/07/2009 G

Specification for Radio Hearing Aids

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to radio hearing aids.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
173.965-174.015 MHz	2 mW e.r.p.	EN 300 422

Radio hearing aids which operate in these frequency bands may be used both indoors and outdoors.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as applicable:

EN 300 422-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-9
Electromagnetic compatibility and Radio spectrum Matters (ERM) - Electromagnetic Compatibility (EMC) standard for radio equipment and services - Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices.

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for the radio interface of this equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI053
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Specification for Wireless Audio Applications

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to wireless audio applications.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
863-865 MHz	10 mW e.r.p.	EN 301 357
864.8-865.0 MHz	10 mW e.r.p.	EN 300 220
1795-1800 MHz	20 mW e.i.r.p.	EN 301 357

Devices which operate in these frequency bands may only be used for indoor applications.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as applicable:

EN 300 220-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 357-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Cordless audio devices in the range 25 MHz to 2 000 MHz; Consumer radio microphones and in-ear monitoring systems operating in the CEPT harmonised band 863 MHz to 865 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-9
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices.

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Additional requirements

Additional requirements may exist for wireless audio applications. A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI054
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Specification for Non-Specific Short Range Devices and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to non-specific short range devices and ancillary equipment.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
6765 - 6795 kHz	42 dBµA/m @10m	EN 300 330
13.553 - 13.567 MHz	42 dBµA/m @10m	EN 300 330
26.957 - 27.283 MHz	42 dBµA/m @10m 10 mW e.r.p.	EN 300 330 EN 300 220
40.660 - 40.700 MHz	10 mW e.r.p.	EN 300 220
315.000*	10 mW e.r.p.	EN 300 220
433.050 - 434.790 MHz	10 mW e.r.p.	EN 300 220
433.050 - 434.790 MHz	1 mW e.r.p. 13 dBm/10 kHz	EN 300 220
434.040 - 434.790 MHz	10 mW e.r.p.	EN 300 220
863.000 - 870.000 MHz	≤25 mW e.r.p.	EN 300 220
(Subbands for Alarms excluded)	≤25 mW e.r.p.	EN 300 220
	≤25 mW e.r.p.	EN 300 220
868.000 - 868.600 MHz	≤25 mW e.r.p.	EN 300 220
868.700 - 869.200 MHz	≤25 mW e.r.p.	EN 300 220
869.400 - 869.650 MHz	≤500 mW e.r.p.	EN 300 220
869.700 - 870.000 MHz	≤5 mW e.r.p.	EN 300 220
2400 - 2483.5 MHz	10 mW e.i.r.p.	EN 300 440
5725 - 5875 MHz	25 mW e.i.r.p.	EN 300 440
24.00 - 25 GHz	100 mW e.i.r.p.	EN 300 440
122 - 123 GHz	100 mW e.i.r.p.	EN 300 440

*: As a grace period, equipment operating in the frequency of 315 MHz has been allowed to be imported into the Kingdom of Saudi Arabia until the end of year 2012.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as applicable:

EN 300 220-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 300 330-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

EN 300 440-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz
Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for the use of non-specific short-range devices and ancillary equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI055
Revision: Issue 2
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Specification for Radio Frequency Identification (RFID) Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Radio Frequency Identification (RFID) equipment.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
13.553-13.567 MHz	60 dBµA/m at 10m*	EN 300 330 EN 302 291
2446-2454 MHz	500 mW e.i.r.p. 4 W e.i.r.p.*	EN 300 440
865.0-865.6 MHz	100 mW e.r.p.	EN 302 208
865.6-867.6 MHz	2 W e.r.p.	EN 302 208
867.6-868.0 MHz	500 mW e.r.p.	EN 302 208

* Power levels above 500 mW are restricted to use inside the boundaries of a building and the duty cycle of all transmissions shall in this case be ≤15 % in any 200 ms period (30 ms on /170 ms off)

Certain frequencies allocated for use by non specific radio equipment and inductive may be used by RFID applications subject to compliance with the applicable requirements.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 330-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under Article 3.2 of the R&TTE Directive

EN 300 440-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

EN 302 208-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W; Part 2: Harmonised EN under Article 3.2 of the R&TTE Directive

EN 302 291-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Close Range Inductive Data Communication equipment operating at 13,56 MHz; Part 2: Harmonised EN under Article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz
Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for the use of RFID equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website..

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI056
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Date: 11/07/2009 G

Specification for UMTS (3G) Handsets and Related Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to UMTS handsets and related terminal equipment.

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
1920 – 1980 MHz (uplink) 2110 – 2170 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1850 – 1910 MHz (uplink) 1930 – 1990 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1710 – 1785 MHz (uplink) 1805 – 1880 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1710 – 1775 MHz (uplink) 2110 – 2175 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
824 – 849 MHz (uplink) 869 – 894 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
830 – 840 MHz (uplink) 875 – 885 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
2500 – 2570 MHz (uplink) 2620 – 2690 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
880 – 915 MHz (uplink) 825 – 860 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1749.9 – 1784.9 MHz (uplink) 1844.9 – 1879.9 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1710 – 1770 MHz (uplink) 2110 – 2170 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 908-1
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS) and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 1: Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 908-2
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 2: Harmonized EN for IMT-2000, CDMA Direct Spread (UTRA FDD) (UE) covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 908-6
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 6: Harmonized EN for IMT-2000, CDMA TDD (UTRA TDD) (UE) covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-24
Electromagnetic compatibility and Radio spectrum Matters (ERM);Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) for Mobile and portable (UE) radio and ancillary equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for UMTS handsets and related equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI057
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Specification for UMTS (3G) Handsets Base Stations and Related Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to UMTS (3G) Handsets Base Stations and Related Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
1920 – 1980 MHz (uplink) 2110 – 2170 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908
1850 – 1910 MHz (uplink) 1930 – 1990 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908
1710 – 1785 MHz (uplink) 1805 – 1880 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908
1710 – 1775 MHz (uplink) 2110 – 2175 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908
824 – 849 MHz (uplink) 869 – 894 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908
830 – 840 MHz (uplink) 875 – 885 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908
2500 – 2570 MHz (uplink) 2620 – 2690 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908
880 – 915 MHz (uplink) 825 – 860 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908
1749.9 – 1784.9 MHz (uplink) 1844.9 – 1879.9 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908
1710 – 1770 MHz (uplink) 2110 – 2170 MHz (downlink)	20 W e.i.r.p.	EN 301 489 EN 301-908

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 908-1
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS) and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 1: Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 908-3
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS) and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 3: Harmonized EN for IMT-2000, CDMA Direct Spread (UTRA FDD) (BS) covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 908-7
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 7: Harmonized EN for IMT-2000, CDMA TDD (UTRA TDD) (BS) covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 908-11
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 11: Harmonized EN for IMT-2000, CDMA Direct Spread (UTRA FDD) (Repeaters) covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-23
Electromagnetic compatibility and Radio spectrum Matters (ERM);Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 23: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) Base Station (BS) radio, repeater and ancillary equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General

In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for GSM handsets and related equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI058
Revision: Issue 2
Date: 11/07/2009 G

Specification for WiMAX Subscriber Equipment, Base Stations and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to WiMAX Subscriber Equipment, Base Stations and Ancillary Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard (Terminal)	ETSI Standard (Base Statiom)
3.400 – 3.600 GHz	*	EN 302 623	EN 302 326
3.600 - 3.800 GHz	*	EN 302 623	EN 302 326
2.500 - 2.6860 GHz	*	EN 302 544-2	EN 302 544 -1

* Maximum output power will be determined by CITC on a case-by-case Basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 302 544-1
Broadband Data Transmission Systems operating in the 2 500 MHz to 2 690 MHz frequency band; Part 1: TDD Base Stations; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 302 544-2
Broadband Data Transmission Systems operating in the 2 500 MHz to 2 690 MHz frequency band; Part 2: TDD User Equipment Stations; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 302 623
Broadband Wireless Access Systems (BWA) in the 3 400 MHz to 3 800 MHz frequency band; Mobile Terminal Stations; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 302 326-1
Fixed Radio Systems; Multipoint Equipment and Antennas; Part 1: Overview and Requirements for Digital Multipoint Radio Systems.

EN 302 326-2
Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive for Digital Multipoint Radio Equipment.

EN 302 326-3
Fixed Radio Systems; Multipoint Equipment and Antennas; Part 3: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive for Multipoint Radio Antennas.

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-4
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment and services.

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	11/07/2009 G

CITC Technical Specification

Document Number: RI080
Revision: Issue 1
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Specification for Tracking, Tracing, Data Acquisition

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Tracking, Tracing, Data Acquisition

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 300 220-2

Electromagnetic compatibility and Radio spectrum Matters (ERM) — Short Range Devices (SRD) — Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW — Part 2: Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 489-1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Electromagnetic Compatibility (EMC) standard for radio equipment and services — Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI081
Revision: Issue 1
Date: 11/07/2009 G

Specification for Avalanche Beacons

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Avalanche Beacons

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
457 kHz	7 dBµA/m @10m	EN 300 718

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 300 718-2
Electromagnetic compatibility and Radio spectrum Matters (ERM);Avalanche Beacons; Transmitter-receiver systems; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Electromagnetic Compatibility (EMC) standard for radio equipment and services — Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI082
Revision: Issue 1
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Specification for Alarms

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Alarms

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 17/03/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
868.6000 - 868.7000 MHz	10 mW e.r.p.	EN 300 220
869.2500 - 869.3000 MHz	10 mW e.r.p.	EN 300 220
869.6500 - 869.7000 MHz	25 mW e.r.p.	EN 300 220
869.2000 - 869.2500 MHz	10 mW e.r.p.	EN 300 220
869.3000 - 869.4000 MHz	10 mW e.r.p.	EN 300 220
169.4750 - 169.4875 MHz	10 mW e.r.p.	EN 300 220
169.5875 - 169.6000 MHz	10 mW e.r.p.	EN 300 220

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 300 220-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Electromagnetic Compatibility (EMC) standard for radio equipment and services — Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specifications GEN001 and GEN003, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Document History

Description	Status	Data
	Issue 1	08/01/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI083
Revision: Issue 1
Date: 11/07/2009 G

Specification for Medical Devices

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Medical Devices

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
9-315 kHz	30 dBμA/m at 10m	EN 302 195
30.0-37.5 MHz	1 mW e.r.p.	EN 302 510
402-405 MHz	25 μW e.r.p.	EN 301 839
401-402 MHz	25 μW e.r.p.	EN 302 537
405-406 MHz	25 μW e.r.p.	EN 302 537

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 301 839-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Short Range Devices (SRD) — Ultra Low Power Active Medical Implants (ULP-AMI) and Peripherals (ULP-AMI-P) operating in the frequency range 402 MHz to 405 MHz — Part 2: Harmonized EN covering essential requirements of Article 3(2) of the R&TTE Directive

EN 302 195-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Radio equipment in the frequency range 9 kHz to 315 kHz for Ultra Low Power Active Medical Implants (ULP-AMI) and accessories — Part 2: Harmonize EN covering essential requirements of Article 3(2) of the R&TTE Directive

EN 302 510-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Radio equipment in the frequency range 30 MHz to 37,5 MHz for Ultra Low Power Active Medical Membrane Implants and Accessories — Part 2: Harmonized EN covering essential requirements of Article 3(2) of the R&TTE Directive

EN 302 537-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Short Range Devices (SRD) — Ultra Low Power Medical Data Service Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz — Part 2: Harmonized EN covering essential requirements of Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-27
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Electromagnetic Compatibility (EMC) standard for radio equipment and services — Part 27: Specific conditions for Ultra Low Power Active Medica Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P)

EN 301 489-31
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Electromagnetic Compatibility (EMC) standard for radio equipment and services — Part 31: EMC for radio equipment in the 9 to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P)

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI084
Revision: Issue 1
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Specification for Animal Implantable Devices

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Animal Implantable Devices

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
315-600 kHz	-5 dBµA/m at 10m	EN 302 536
12.5-20.0 MHz	-7 dBµA/m at 10m	EN 300 330

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 300 330-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Short Range Devices (SRD) — Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz — Part 2: Harmonized EN under Article 3(2) of the R&TTE Directive

EN 302 536-2
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Short Range Devices (SRD) — Radio equipment in the frequency range 315 kHz to 600 kHz — Part 2: Harmonized EN covering essential requirements of Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-27
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Electromagnetic Compatibility (EMC) standard for radio equipment and services — Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P)

EN 301 489-31
Electromagnetic compatibility and Radio spectrum Matters (ERM) — Electromagnetic Compatibility (EMC) standard for radio equipment and services — Part 31: EMC for radio equipment in the 9 to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P)

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI085
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Specification for Ultra Wideband Application

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Ultra Wideband Application

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum mean Power Density		Maximum peak Power Density		ETSI Standard
0.03 - 1.6 GHz	1.0 pW/MHz e.i.r.p.	-90.0 dBm/MHz e.i.r.p.	10 nW/MHz e.i.r.p.	-50.0 dBm/MHz e.i.r.p.	EN 302 066
1.6 – 2.7 GHz	3.16 pW/MHz e.i.r.p.	-85.0 dBm/MHz e.i.r.p.	31.6 nW/MHz e.i.r.p.	-45.0 dBm/MHz e.i.r.p.	EN 302 066
2.7 – 3.4 GHz	100 pW/MHz e.i.r.p.	-70.0 dBm/MHz e.i.r.p.	251 nW/MHz e.i.r.p.	-36.0 dBm/MHz e.i.r.p.	EN 302 066
3.4 – 3.8 GHz	10 pW/MHz e.i.r.p.	-80.0 dBm/MHz e.i.r.p.	100 nW/MHz e.i.r.p.	-40.0 dBm/MHz e.i.r.p.	EN 302 065 EN 302 066
3.8 –4.2 GHz	100 pW/MHz e.i.r.p.	-70.0 dBm/MHz e.i.r.p.	1 mW/MHz e.i.r.p.	-30.0 dBm/MHz e.i.r.p.	EN 302 065 EN 302 066
4.2 – 4.8 GHz	100 pW/MHz e.i.r.p.	-70.0 dBm/MHz e.i.r.p.	1 mW/MHz e.i.r.p.	-30.0 dBm/MHz e.i.r.p.	EN 302 065 EN 302 066
4.8 – 6.0 GHz	100 pW/MHz e.i.r.p.	-70.0 dBm/MHz e.i.r.p.	1 mW/MHz e.i.r.p.	-30.0 dBm/MHz e.i.r.p.	EN 302 066
6.0 – 8.5 GHz	74.1 nW/MHz e.i.r.p.	-41.3 dBm/MHz e.i.r.p.	1 W/MHz e.i.r.p.	0.0 dBm/MHz e.i.r.p.	EN 302 065 EN 302 066 EN 302 500
8.5 – 10.6 GHz	316 pW/MHz e.i.r.p.	-65.0 dBm/MHz e.i.r.p.	3.16 mW/MHz e.i.r.p.	-25.0 dBm/MHz e.i.r.p.	EN 302 066
>10.6 GHz	-3.16 pW/MHz e.i.r.p.	-85.0 dBm/MHz e.i.r.p.	31.6 nW/MHz e.i.r.p.	-45.0 dBm/MHz e.i.r.p.	EN 302 066

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 302 065

Electromagnetic compatibility and Radio spectrum Matters (ERM); Ultra Wideband (UWB) technologies for communication purposes; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 302 066-2

Electromagnetic compatibility and Radio spectrum Matters (ERM); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

EN 302 500-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD) using Ultra Wideband (UWB) technology; Location Tracking equipment operating in the frequency range from 6 GHz to 8,5 GHz; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-32
Electromagnetic compatibility and Radio spectrum Matters (ERM);Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 32: Specific conditions for Ground and Wall Probing Radar applications

EN 301 489-33
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 33: Specific conditions for Ultra Wide Band (UWB) communications devices

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI086
Revision: Issue 1
Date: 11/07/2009 G

Specification for Broadcasting DAB Transmitting Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Broadcasting DAB Transmitting Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 17/03/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
47 - 68 MHz	*	EN 302 077
174 - 240 MHz	*	EN 302 077
1 452 - 1 492 MHz.	*	EN 302 077

* specific output power is subject to specific licensing conditions.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 302 077-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); transmitting equipment for the Terrestrial - Digital Audio Broadcasting (T-DAB) service; Part 1: Technical characteristics and test methods

EN 302 077-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); transmitting equipment for the Terrestrial - Digital Audio Broadcasting (T-DAB) service; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-11
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 11: Specific conditions for terrestrial sound broadcasting service transmitters

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	08/01/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI087
Revision: Issue 1
Date: 11/07/2009 G

Specification for Broadcasting DVB Transmitting Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Broadcasting DVB Transmitting Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 17/03/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
Band IV	*	EN 302 296
Band V	*	EN 302 296

* specific output power is subject to specific licensing conditions.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 302 296
Electromagnetic compatibility and Radio spectrum Matters (ERM); Transmitting equipment for the digital television broadcast service, Terrestrial (DVB-T); Harmonized EN under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-14
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitters

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	08/01/2009 G

CITC Technical Specification

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Specification for Digital Radio Mondiale (DRM) Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Digital Radio Mondiale (DRM) Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation (Below 30 MHz)

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
148,5 KHz – 283,5 KHz	50 mW	EN 302 245-2
526,5 KHz – 1606,5 KHz	50 mW	EN 302 245-2
2,3 MHz – 27 MHz	50 mW	EN 302 245-2

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 302 245-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); transmitting equipment for the Digital Radio Mondale (DRM) broadcasting service; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-11
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 11: Specific conditions for terrestrial sound broadcasting service transmitters

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI089
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Specification for Powerline Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Powerline Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	CENELEC Standard
1.6 MHz - 30 MHz	– 50 dBm/Hz	EN 55022 EN 50412-2-1

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 55022
Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement (CISPR 22)

EN 50412-2-1
Power line communication apparatus and systems used in low-voltage installations in the frequency range 1.6 MHz to 30 MHz Part 2-1: Residential, commercial and industrial environment Immunity requirements

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

Power line equipment imported into Saudi Arabia should be approved by a recognized industry alliance, such as HomePlug, Universal Powerline Association (UPA), or HD-PLC.

Obtaining Technical standards

CENELEC technical standards may be obtained for cost from www.cenelec.org

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI090
Revision: Issue 1
Date: 11/07/2009 G

Specification for Navigation (Air)

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Navigation (Air)

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
1.25 – 1,35 GHz 2,7 – 2,9 GHz 9,0 – 9,2 GHz	n.d.	Ground-radar equipment
1030 MHz	90 dBm	Secondary-radar equipment
328,6 – 335,4 MHz	n.d.	Glide path transmitter
960 – 1215 MHz	n.d.	Distance measurement equipment (DME)
108.0 – 117,975 MHz	n.d.	Rotating beacon
255-526,5 kHz	n.d.	Non-directional beacon (NDB)

75 MHz	n.d.	Marker Beacon
108,000 – 117,975 MHz	n.d.	Ground Based Augmentation System (GBAS)
108.000 – 111,975 MHz	n.d.	Localizer course
5031,0 – 5090,7 MHz	n.d.	Microwave Landing System

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

ITU Radio Regulations ed 2008

Recommendation ITU-R SM.329-10
Spurious Emissions

Recommendation ITU-R M.1177-3
Techniques for measurement of spurious emissions of radar systems

ICAO
Annex 10 to the Convention on International Civil Aviation,
Volume IV: Surveillance Radar and Collision Avoidance Systems

ICAO
Annex 10 to the Convention on International Civil Aviation, Volume I und V

ICAO
Manual on Testing of Radio Navigation Aids, Doc 8071

EUROCAE ED 52
MPS for conventional and Doppler VHF omni-range
(C VOR and D VOR) (ground equipment)

EUROCAE ED 53A
MOPS for microwave landing system (MLS) (ground equipment)

EUROCAE ED 57
MOPS for Distance Measuring Equipment (DME/N and DME/P)
(Ground Equipment)”

EUROCAE ED-114
MOPS for a Ground Based Augmentation System (GBAS) ground facility to support CAT I approach and landing

General

In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ITU Recommendations, ICAO documents and Eurocae standards obtained at cost from, or through www.itu.int, www.icao.int and www.eurocae.org respectively.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI091
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Specification for Navigation (Ground)

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Navigation (Ground)

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Band	ETSI Standard
1164–1214 MHz	L5	EN 300440
1563–1591 MHz	L1	EN 300440
1260–1300 MHz	L2	EN 300440

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 300 440-2
Electromagnetic compatibility and Radio spectrum Matters (ERM);Short range devices;Radio equipment to be used in the 1 GHz to 40 GHz frequency range;Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive.

EN 55022
Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement (CISPR 22)

EN 55024
Information technology equipment — Immunity characteristics
— Limits and methods of measurement(CISPR 24)

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

CENELEC technical standards may be obtained for cost from www.cenelec.org

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

CITC Technical Specification

Document Number: RI092
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Specification for Navigation (Water)

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Navigation (Water)

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
90 – 110 kHz	---	EN 61075
2.9 – 3.1 GHz	30 KW (conducted)*	IEC 62388 IEC 60936 IEC 60945
9.3 – 9.5 GHz	25 KW (conducted)*	IEC 62388 IEC 60936 IEC 60945

* The maximum of the antenna gain shall not exceed 30 dBi.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 61075 / IEC 61075
Loran-C receivers for ships - Minimum performance standards - Methods of testing and required test results

EN 62388 / IEC 62388
Maritime navigation and radio communication equipment and systems - Shipborne radar - Performance requirements, methods of testing and required test results

EN 60936-2 / IEC 60936-2
Maritime Navigation and Radio communication Equipment and Systems - Radar - Part 2: Shipborne Radar for High-Speed Craft (HSC) - Methods of Testing and Required Test Results

EN 60945-2 / IEC 60945-2
Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

CENELEC and IEC standards may be obtained at cost from, or through www.cenelec.org and from www.iec.ch respectively.

Document History

Description	Status	Data

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI093
Revision: Issue 1
Date: 11/07/2009 G

Specification for Alarm Systems with GSM

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Alarm Systems with GSM

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
880 – 890 MHz	8 W e.r.p.	EN 301 511
890 – 915 MHz	8 W e.r.p.	EN 301 511
925 – 935 MHz	8 W e.r.p.	EN 301 511
935 – 942 MHz	8 W e.r.p.	EN 301 511
942 – 960 MHz	8 W e.r.p.	EN 301 511
1710 – 1785 MHz	8 W e.r.p.	EN 301 511
1805 – 1880 MHz	8 W e.r.p.	EN 301 511

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 301 511
Global system for mobile communications (GSM); Harmonised standard for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under Article 3(2) of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-7
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for GSM handsets, terminals and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI094
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Specification for Wireless Beamer

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Wireless Beamer

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
2400.0-2483.5 MHz	100 mW e.i.r.p.	EN 300 328
5150 -5250 MHz	200 mW e.i.r.p. Max mean	EN 301 893
5250 – 5350 MHz	200 mW e.i.r.p. Max mean	EN 301 893
5470 – 5825 MHz	1000 mW e.i.r.p. Max mean	EN 301 893
5425 - 5825 MHz	25 mW e.i.r.p. Max mean	EN 300 440

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 328
Electromagnetic compatibility and Radio spectrum Matters (ERM) .- Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques - Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 893
Broadband Radio Access Networks (BRAN);5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

All equipments must comply with the Wireless Local Area Networks Regulation. See http://www.citc.gov.sa/ for details.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Specification for Cameras with Radio Interface

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Cameras with Radio Interface

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
2400.0-2483.5 MHz	100 mW e.i.r.p.	EN 300 328
5150 -5250 MHz	200 mW e.i.r.p. Max mean	EN 301 893
5250 – 5350 MHz	200 mW e.i.r.p. Max mean	EN 301 893
5470 – 5825 MHz	1000 mW e.i.r.p. Max mean	EN 301 893
5425 - 5825 MHz	25 mW e.i.r.p. Max mean	EN 300 440

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 328
Electromagnetic compatibility and Radio spectrum Matters (ERM) .- Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques - Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 893
Broadband Radio Access Networks (BRAN);5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

All equipments must comply with the Wireless Local Area Networks Regulation. See http://www.citc.gov.sa/ for details.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Specification for Emergency Beacons

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Emergency Beacons

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 17/03/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
406,0– 406,1 MHz	5 W	EN 300 066
1 644,3 - 1 644,5 MHz	1 W	EN 300 372
1 645,6 - 1 645,8 MHz	1 W	EN 300 372

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 300 066
Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Float-free maritime satellite Emergency Position Indicating Radio Beacons (EPIRBs) operating in the 406,0 MHz to 406,1 MHz frequency band; Technical characteristics and methods of measurement

EN 300 372
Radio Equipment and Systems (RES); Technical characteristics and methods of measurement for maritime float-free satellite Emergency Position Indicating Radio Beacon (EPIRB) operating in the 1,6 GHz band through geostationary satellites

EN 301 843-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for marine radio equipment and services; Part 1: Common technical requirements

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Document History

Description	Status	Data
	Issue 1	08/01/2009 G

CITC Technical Specification

Document Number: RI101
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Specification for Wireless HD Application

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Wireless HD Application

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band		Maximum Output Power or Magnetic Field	ETSI Standard
57 - 66 GHz	Transmit	25 dBm mean e.i.r.p.*	EN 302 567
57 - 66 GHz	Transmit	40 dBm mean e.i.r.p.**	EN 302 567

*The maximum mean e.i.r.p density is limited to -2 dBm/MHz.
**The maximum mean e.i.r.p density is limited to 13 dBm/MHz

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 302 567
Broadband Radio Access Networks (BRAN); 60 GHz Multiple-Gigabit WAS/RLAN Systems; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

Restricted to indoor use.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI102
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Specification for GPS Receiver

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to GPS Receiver

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Band	ETSI Standard
1164–1214 MHz	L5	EN 300440
1563–1591 MHz	L1	EN 300440
1260–1300 MHz	L2	EN 300440

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 300 440-2
Electromagnetic compatibility and Radio spectrum Matters (ERM);Short range devices;Radio equipment to be used in the 1 GHz to 40 GHz frequency range;Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive.

EN 55022
Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement (CISPR 22)

EN 55024
Information technology equipment — Immunity characteristics
— Limits and methods of measurement(CISPR 24)

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

CENELEC technical standards may be obtained for cost from www.cenelec.org

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI103
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Specification for Bluetooth Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Bluetooth Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
2,4 GHz Class 1	20 dBm (100mW)	EN 300 328
2,4 GHz Class 2	4 dBm (2,5mW)	EN 300 328
2,4 GHz Class 3	0 dBm (1mW)	EN 300 328

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

EN 300 328
Title: Electromagnetic compatibility and Radio spectrum Matters (ERM);Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

CITC Technical Specification

Document Number: RI104
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Specification for Zigbee Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Contents

This document comprises the following sections:

Scope

This document applies to Zigbee Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	Cannel / kBit/s	ETSI Standard
868.300 MHz	25 mW e.r.p.	CH 0 / 20	EN 300 220
902.000 – 928.000 MHz	100 mW e.r.p.	CH 1 – 10 / 40	EN 300 220
2400.0-2483.5 MHz	100 mW e.i.r.p.	CH 11 – 26 / 250	EN 300 328

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 220-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 300 328
Electromagnetic compatibility and Radio spectrum Matters (ERM) .- Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques - Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz
Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

EN 301 489-17
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General

In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

All equipments must comply with the Wireless Local Area Networks Regulation. See http://www.citc.gov.sa/ for details.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
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هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

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Specification for WiFi Router with WiMAX

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Contents

This document comprises the following sections:

Scope

This document applies to WiFi Router with WiMAX

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
3.400 – 3.600 GHz	*	EN 302 623
3.600 - 3.800 GHz	*	EN 302 623
2.500 - 2.6860 GHz	*	EN 302 544-2
2.400 - 2.4835 GHz	100 mW e.i.r.p.	EN 300 328
5.150 -5.250 GHz	200 mW e.i.r.p. Max mean	EN 301 893
5.250 - 5.350 GHz	200 mW e.i.r.p. Max mean	EN 301 893
5.470 - 5.825 GHz	1000 mW e.i.r.p. Max mean	EN 301 893
5.425 - 5.825 GHz	25 mW e.i.r.p. Max mean	EN 300 440

* Maximum output power will be determined by CITC on a case-by-case Basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 302 544-2
Broadband Data Transmission Systems operating in the 2 500 MHz to 2 690 MHz frequency band; Part 2: TDD User Equipment Stations; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 302 623
Broadband Wireless Access Systems (BWA) in the 3 400 MHz to 3 800 MHz frequency band; Mobile Terminal Stations; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 300 328
Electromagnetic compatibility and Radio spectrum Matters (ERM) .- Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques - Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 893
Broadband Radio Access Networks (BRAN);5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-4
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment and services.

EN 301 489-17
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
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CITC Technical Specification

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Specification for WiFi Router with UMTS (3G)

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to WiFi Router with UMTS (3G)

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
1920 – 1980 MHz (uplink) 2110 – 2170 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1850 – 1910 MHz (uplink) 1930 – 1990 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1710 – 1785 MHz (uplink) 1805 – 1880 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1710 – 1775 MHz (uplink) 2110 – 2175 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
824 – 849 MHz (uplink) 869 – 894 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
830 – 840 MHz (uplink) 875 – 885 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
2500 – 2570 MHz (uplink) 2620 – 2690 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
880 – 915 MHz (uplink) 825 – 860 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1749.9 – 1784.9 MHz (uplink) 1844.9 – 1879.9 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
1710 – 1770 MHz (uplink) 2110 – 2170 MHz (downlink)	24 dBm e.i.r.p.	EN 301-908
2400.0-2483.5 MHz	100 mW e.i.r.p	EN 300 328
5150 -5250 MHz	200 mW e.i.r.p	EN 301 893
5250 – 5350 MHz	200 mW e.i.r.p	EN 301 893
5470 – 5825 MHz	1000 mW e.i.r.p	EN 301 893

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

EN 300 328
Electromagnetic compatibility and Radio spectrum Matters (ERM) .- Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques - Harmonized EN covering essential requirements under Article 3(2) of the R&TTE Directive

EN 301 893
Broadband Radio Access Networks (BRAN);5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 301 908-1
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS) and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 1: Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 908-2
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 2: Harmonized EN for IMT-2000, CDMA Direct Spread (UTRA FDD) (UE) covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 908-6
Electromagnetic compatibility and Radio spectrum Matters (ERM);Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 6: Harmonized EN for IMT-2000, CDMA TDD (UTRA TDD) (UE) covering essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General

In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for UMTS handsets and related equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

CITC Technical Specification

Document Number: RI108
Revision: Issue 1
Date: 11/07/2009 G

Specification for Software Defined Radio Equipment (SDR)

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Software Defined Radio equipment (SDR)

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Frequency bands will be allocated for use by SDR by CITC's Spectrum Affairs department on a case-by-case basis.

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

SDR technology enables the use of multiple different waveforms on a single hardware device. It may be appropriate for different user categories on the public/private shared network to use different waveforms or to select different options within a single waveform standard. Radio spectrum requirements will be defined by CITC on a case-by-case basis.

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

Additional requirements may exist for the use of SDR equipment at this time. A licence must be obtained before equipment of this type can be used in the Kingdom. This licence will detail conditions of use and any additional requirements which must be met.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

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CITC Technical Specification

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Specification for DAB, DVB and DRM Broadcasting Receivers

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to DAB, DVB and DRM Broadcasting Receivers

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Application	Standard
47 - 68 MHz 174 - 240 MHz 1 452 - 1 492 MHz	DAB	EN 55013 EN 55020
Band IV and V	DVB	EN 55013 EN 55020
148,5 KHz – 283,5 KHz 526,5 KHz – 1606,5 KHz 2,3 MHz – 27 MHz	DRM	EN 55013 EN 55020

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications as appropriate:

EN 55013
Sound and television broadcast receivers and associated equipment — Radio disturbance characteristics — Limits and methods of measurement

EN 55020
Sound and television broadcast receivers and associated equipment — Immunity characteristics — Limits and methods of measurement

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Obtaining Technical standards

CENELEC technical standards may be obtained for cost from www.cenelec.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G

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CITC Technical Specification

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Specification for Encryption GSM Equipment

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This publication is a translation in case of divergence; the original Arabic text shall prevail.

Contents

This document comprises the following sections:

Scope

This document applies to Encryption GSM Equipment

All telecommunications and radio terminal equipment must comply with the relevant Technical Specifications established by CITC. In addition, such equipment may be subject to Regulations for Declaration of Conformity or Registration. See http://www.citc.gov.sa/ for details.

Where more than one interface type is offered by a piece of equipment, each interface must meet the applicable Technical Specifications.

Entry into Force

This specification shall enter into force on 11/07/2009 G

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
880 – 890 MHz	8 W e.r.p.	EN 301 511
890 – 915 MHz	8 W e.r.p.	EN 301 511
925 – 935 MHz	8 W e.r.p.	EN 301 511
935 – 942 MHz	8 W e.r.p.	EN 301 511
942 – 960 MHz	8 W e.r.p.	EN 301 511
1710 – 1785 MHz	8 W e.r.p.	EN 301 511
1805 – 1880 MHz	8 W e.r.p.	EN 301 511

Proof of compliance

It is recommended that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

TR 101 375
Security Algorithms Group of Experts (SAGE);Report on the specification, evaluation and usage of the GSM GPRS Encryption Algorithm (GEA).

EN 301 511
Global system for mobile communications (GSM); Harmonised standard for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under Article 3(2) of the R&TTE directive

EN 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-7
Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems

Where no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General
In addition to meeting the above requirements, all equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

No additional requirements exist for GSM handsets, terminals and ancillary equipment at this time.

Obtaining Technical standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site www.etsi.org

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces offered by the network operator can be found by visiting operator website.

Document History

Description	Status	Data
	Issue 1	11/07/2009 G