



CITC Technical Specification

Document Number: RI054
Revision: Issue 3
Date: 15/12/2018 G

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.

Communications and Information Technology Commission
Alnakheel Quarter
Riyadh

Telephone: + 966 11 461 8000
Fax: + 966 11 461 8120
E-mail: info@citc.gov.sa
Website: www.citc.gov.sa

Contents

This document comprises the following sections:

Scope.....	2
Entry into force	2
Frequency of operation	3
Proof of compliance.....	3
Technical requirements.....	3
Additional requirements	4
Obtaining technical standards.....	4
Network information (only for network interfaces)	5
Document history.....	5

Scope

This document applies to non-specific short range devices and ancillary equipment. It should be noted that in KSA this category of short range devices **does not** include network based short range devices, such as Low Power Wide Area Networks and similar infrastructure-based networking 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.

If 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 15/12/2018 G

Frequency of operation

The following table is showing information on frequency bands, maximum output power and applicable specification:

Frequency band	Maximum Output Power or Magnetic Field	ETSI Standard
6765 - 6795 kHz	42 dB μ A/m @10m	EN 300 330
13.553 - 13.567 MHz	42 dB μ A/m @10m	EN 300 330
26.957 - 27.283 MHz	42 dB μ A/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
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	\leq 25 mW e.r.p.	EN 300 220
(Subbands for Alarms excluded)	\leq 25 mW e.r.p.	EN 300 220
	\leq 25 mW e.r.p.	EN 300 220
868.000 - 868.600 MHz	\leq 25 mW e.r.p.	EN 300 220
868.700 - 869.200 MHz	\leq 25 mW e.r.p.	EN 300 220
869.400 - 869.650 MHz	\leq 500 mW e.r.p.	EN 300 220
869.700 - 870.000 MHz	\leq 25 mW e.r.p.	EN 300 220
870-876 MHz	\leq 25 mW e.r.p.	EN 300 220
915-921 MHz	\leq 25 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

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 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz.

If 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 requirements of CITEC specifications GEN001, 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 website www.etsi.org.

Network information (only for network interfaces)

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

Document history

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	10/01/2010 G
	Issue 3	15/12/2018 G