



CITC Technical Specification

Document Number: RI056
Revision: Issue 6
Date: 15/07/2019 G

Specification for UMTS (3G) and LTE (4G) Handsets and Related 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	2
Proof of compliance.....	3
Technical requirements.....	3
Additional requirements	4
Obtaining technical standards.....	4
Network information (only for network interfaces)	4
Document history.....	4

Scope

This document applies to UMTS and LTE 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.

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 15/07/2019 G

Frequency of operation

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

Uplink (MHz) (UE transmit)	Downlink (MHz) (UE receive)	Maximum Output Power	Duplex Mode
703 MHz – 733 MHz	758 MHz – 788 MHz	24 dBm e.i.r.p	FDD
832 MHz – 862 MHz	791 MHz – 821 MHz	24 dBm e.i.r.p	FDD
880 MHz – 915 MHz	925 MHz – 960 MHz	24 dBm e.i.r.p	FDD
1710 MHz – 1785 MHz	1805 MHz – 1880 MHz	24 dBm e.i.r.p	FDD
1880 MHz – 1920 MHz	1880 MHz – 1920 MHz	24 dBm e.i.r.p	TDD
1920 MHz – 1980 MHz	2110 MHz – 2170 MHz	24 dBm e.i.r.p	FDD
2300 MHz – 2400 MHz	2300 MHz – 2400 MHz	24 dBm e.i.r.p	TDD
2500 MHz - 2690 MHz	2500 MHz - 2690 MHz	24 dBm e.i.r.p	TDD
3400 MHz – 3600 MHz	3400 MHz – 3600 MHz	24 dBm e.i.r.p	TDD
3600 MHz – 3800 MHz	3600 MHz – 3800 MHz	24 dBm e.i.r.p	TDD

Proof of compliance

It is required 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 301 908-13

IMT cellular networks; Harmonised EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE).

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.

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

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

Additional requirements

All mobile phones, tablets, Smart watches and mobile computer must contain CIRC E-label, The mobile phones must comply with the Technical Requirements On Mobile Devices to Enable Cell Broadcast Service (CBS) Alert which can be found on this [link](#).^[1] Additionally, all network based equipment (including mobile phones, tablets, Smart watches and mobile computer) must support 4G as a requirement for equipment approval and Customs clearance.

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	01/03/2013 G
	Issue 3	15/03/2016 G
	Issue 4	25/09/2017 G
	Issue 5	15/12/2018 G
	Issue 6	15/07/2019 G

[1]:https://www.circ.gov.sa/en/RulesandSystems/RegulatoryDocuments/EquipmentApproval/Documents/TA_704_E_CIRC.pdf