



CITC Technical Specification

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Specification for UMTS (3G) and LTE (4G) 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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Scope

This document applies to UMTS (3G) and LTE (4G) 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.

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) (Base Station transmit)	Maximum Base Station Output Power	Duplex Mode
703 MHz – 733 MHz	758 MHz – 788 MHz	43 dBm/5 MHz	FDD
832 MHz – 862 MHz	791 MHz – 821 MHz	43 dBm/5 MHz	FDD
880 MHz – 915 MHz	925 MHz – 960 MHz	43 dBm/5 MHz	FDD
1710 MHz – 1785 MHz	1805 MHz – 1880 MHz	43 dBm/5 MHz	FDD
1880 MHz – 1920 MHz	1880 MHz – 1920 MHz	43 dBm/5 MHz	TDD
1920 MHz – 1980 MHz	2110 MHz – 2170 MHz	43 dBm/5 MHz	FDD
2300 MHz – 2400 MHz	2300 MHz – 2400 MHz	43 dBm/5 MHz	TDD
2500 MHz - 2690 MHz	2500 MHz - 2690 MHz	43 dBm/5 MHz	TDD
3400 MHz – 3600 MHz	3400 MHz – 3600 MHz	43 dBm/5 MHz	TDD
3600 MHz – 3800 MHz	3600 MHz – 3800 MHz	43 dBm/5 MHz	TDD

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.

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 CITE 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 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	29/09/2008 G
	Issue 3	01/08/2016 G
	Issue 4	25/09/2017 G
	Issue 5	15/07/2019 G