



CITC Technical Specification

Document Number: RI106
Revision: Issue 1
Date: 10/01/2010 G

Specification for WiFi Router with UMTS (3G)

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
King Fahad Highway
Riyadh

Telephone: + 966 1 461 8050
Fax: + 966 1 461 8150
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.....	4
Additional requirements	5
Obtaining technical standards.....	5
Network information (only for network interfaces)	5
Document history.....	5

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.

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 10/01/2010 G

Frequency of operation

Following table is showing information on frequency bands, maximum output power and applicable specifications:

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 wideband 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 under 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.

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 requirement of CIRC 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 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	Date
	Issue 1	10/01/2010 G