CITC Technical Specification

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

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.

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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............................................................................................................... 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:

<table>
<thead>
<tr>
<th>Frequency band</th>
<th>Maximum Output Power or Magnetic Field</th>
<th>ETSI Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920 – 1980 MHz (uplink) 2110 – 2170 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>1850 – 1910 MHz (uplink) 1930 – 1990 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>1710 – 1785 MHz (uplink) 1805 – 1880 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>1710 – 1775 MHz (uplink) 2110 – 2175 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>824 – 849 MHz (uplink) 869 – 894 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>830 – 840 MHz (uplink) 875 – 885 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>2500 – 2570 MHz (uplink) 2620 – 2690 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>880 – 915 MHz (uplink) 825 – 860 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>1749.9 – 1784.9 MHz (uplink) 1844.9 – 1879.9 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>1710 – 1770 MHz (uplink) 2110 – 2170 MHz (downlink)</td>
<td>24 dBm e.i.r.p.</td>
<td>EN 301-908</td>
</tr>
<tr>
<td>2400.0-2483.5 MHz</td>
<td>100 mW e.i.r.p</td>
<td>EN 300 328</td>
</tr>
<tr>
<td>5150 -5250 MHz</td>
<td>200 mW e.i.r.p</td>
<td>EN 301 893</td>
</tr>
<tr>
<td>5250 – 5350 MHz</td>
<td>200 mW e.i.r.p</td>
<td>EN 301 893</td>
</tr>
<tr>
<td>5470 – 5825 MHz</td>
<td>1000 mW e.i.r.p</td>
<td>EN 301 893</td>
</tr>
</tbody>
</table>

## 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**

**EN 301 908-6**

**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 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 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**

<table>
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