CITC Technical Specification

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Specification for WiFi Router with WiMAX

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

This publication is a translation. In case of divergence; the original Arabic text shall prevail.
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Scope
This document applies to WiFi Router with WiMAX.

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>3.400 – 3.600 GHz</td>
<td>*</td>
<td>EN 302 623</td>
</tr>
<tr>
<td>3.600 - 3.800 GHz</td>
<td>*</td>
<td>EN 302 623</td>
</tr>
<tr>
<td>2.500 - 2.6860 GHz</td>
<td>*</td>
<td>EN 302 544-2</td>
</tr>
<tr>
<td>2.400 - 2.4835 GHz</td>
<td>100 mW e.i.r.p.</td>
<td>EN 300 328</td>
</tr>
<tr>
<td>5.150 - 5.250 GHz</td>
<td>200 mW e.i.r.p. Max mean</td>
<td>EN 301 893</td>
</tr>
<tr>
<td>5.250 - 5.350 GHz</td>
<td>200 mW e.i.r.p. Max mean</td>
<td>EN 301 893</td>
</tr>
<tr>
<td>5.470 - 5.825 GHz</td>
<td>1000 mW e.i.r.p. Max mean</td>
<td>EN 301 893</td>
</tr>
<tr>
<td>5.425 - 5.825 GHz</td>
<td>25 mW e.i.r.p. Max mean</td>
<td>EN 300 440</td>
</tr>
</tbody>
</table>

*Maximum output power will be determined by CITC on a case-by-case decision.

**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 302 544-2**

Broadband Data Transmission Systems operating in the 2500 MHz to 2690 MHz frequency band; Part 2: TDD User Equipment Stations; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE directive.

**EN 302 623**

Broadband Wireless Access Systems (BWA) in the 3400 MHz to 3800 MHz frequency band; Mobile Terminal Stations; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE directive.
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 wide band 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 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 301 489-4
Electromagnetic compatibility and Radio spectrum Matters (ERM);
Electromagnetic Compatibility (EMC) standard for radio equipment and
services; Part 4: Specific conditions for fixed radio links and ancillary
equipment and services.

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
A licence must be obtained before equipment of this type can be used in the
Kingdom. This licence will detail conditions of use and any additional
requirements which must be met.

Obtaining technical standards
ETSI technical standards may be obtained free of charge for individual use
from the ETSI website www.etsi.org.

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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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<tr>
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