CITC Technical Specification

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Specification for Zigbee Equipment

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This publication is a translation. In case of divergence; the original Arabic text shall prevail.
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Scope

This document applies to Zigbee 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 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>Channel / kBit/s</th>
<th>ETSI Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>868.300 MHz</td>
<td>25 mW e.r.p.</td>
<td>CH 0 / 20</td>
<td>EN 300 220</td>
</tr>
<tr>
<td>902.000 – 928.000 MHz</td>
<td>100 mW e.r.p.</td>
<td>CH 1 – 10 / 40</td>
<td>EN 300 220</td>
</tr>
<tr>
<td>2400.0-2483.5 MHz</td>
<td>100 mW e.i.r.p.</td>
<td>CH 11 – 26 / 250</td>
<td>EN 300 328</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 300 220-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short
Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1000
MHz frequency range with power levels ranging up to 500 mW; Part 2:
Harmonized EN covering essential requirements under 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 301 489-1
Electromagnetic compatibility and Radio spectrum Matters (ERM);
Electromagnetic Compatibility (EMC) standard for radio equipment and
services; Part 1: Common technical requirements.

EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM);
Electromagnetic Compatibility (EMC) standard for radio equipment and
services; Part: Specific conditions for Short Range Devices (SRD) operating
on frequencies between 9 kHz and 40 GHz.

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

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
All equipment must comply with the Wireless Local Area Networks Regulation. See http://www.citc.gov.sa/ for details.

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>
<thead>
<tr>
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