CITC Technical Specification

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Specification for Short Range Railway Applications

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications By law.

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Scope
This document applies to short range railway applications.

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 25/09/2017 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>984-7484 kHz</td>
<td>9 dBμA/m @ 10m</td>
<td>EN 302 608</td>
</tr>
<tr>
<td>7300-23000 kHz</td>
<td>-7 dBμA/m @ 10m</td>
<td>EN 302 609</td>
</tr>
<tr>
<td>27090-27100 kHz</td>
<td>42 dBμA/m @ 10 m</td>
<td>EN 302 608</td>
</tr>
<tr>
<td>76-77 GHz</td>
<td>55 dBm peak e.i.r.p.</td>
<td>EN 301 091</td>
</tr>
</tbody>
</table>

Proof of compliance
It is required 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
EN 300 330-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE directive.
EN 302 608
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment for Eurobalise railway systems; Harmonized EN covering the essential requirements.

EN 302 609
Short Range Devices (SRD); Radio equipment for Euroloop railway systems; Harmonised Standard covering the essential requirements.

EN 301 091-2
Electromagnetic compatibility and Radio spectrum Matters (ERM); Road Transport and Traffic Telematics (RTTT) radar equipment operating in the 76 GHz to 77 GHz range; Part 2: Harmonized EN covering essential requirements.

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 301 489-51
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz; Harmonised Standard covering the essential requirements.

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.

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

Document history

<table>
<thead>
<tr>
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<tr>
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