



CITC Technical Specification

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Specification for Tracking, Tracing and Data Acquisition Equipment

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Contents

This document comprises the following sections:

Scope.....	2
Entry into force	2
Proof of compliance.....	2
Technical requirements.....	3
Obtaining technical standards.....	3
Network information (only for network interfaces)	3
Document history.....	3

Scope

This document applies to Short Range Devices used for Tracking, Tracing, Data Acquisition applications. It should be noted that in KSA this category of Short Range Devices **does not** include Network Based Short Range Devices, such as Low Power Wide Area Networks and similar infrastructure-based networking 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 15/12/2018 G

Frequency of operation

The following table is showing information on frequency bands, maximum output power and applicable specification

Frequency Band	Maximum Output Power or Magnetic Field	ETSI Standard
433.05-434.79 MHz	10mW e.r.p.	EN 300 220
865-868 MHz (Note)	100 mW e.r.p.	EN 300 220

Note: for animal tracking devices.

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

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.

ETSI EN 303 204-2

Electromagnetic compatibility and Radio spectrum Matters (ERM); Network Based Short Range Devices (SRD); Radio equipment to be used in the 870 MHz to 876 MHz frequency range with power levels ranging up to 500 mW; Part 2: 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 301 489-3

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

General

In addition to meeting the above requirements, all equipment must comply with the requirements of CITEC specifications 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.

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	17/03/2009 G
	Issue 2	15/12/2018 G