

CITC Technical Specification

Specification for TETRA base stations and ancillary equipment

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Scope

This specification applies to TETRA base stations and ancillary equipment.

Enforcement

This specification shall enter into force on 01/06/2021.

Any previous version of this technical specification is withdrawn.

General Requirements

All equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical 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 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.

Further information on the characteristics and presentation of network interfaces can be found by visiting operator's website.

It is mandatory 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.

Limits and conditions

Testing should be carried out to ensure compliance with the listed specifications.

Frequency band	Max Output Power or Magnetic Field	Usage	Standard	Comments
350 – 370 MHz	Subject to licensing	TETRA	EN 303 035 EN 301 489-18	Up- and downlink
380 – 390 MHz	Subject to licensing	TETRA	EN 303 035 EN 301 489-18	uplink
410 – 420 MHz	40 W	TETRA	EN 303 035 EN 301 489-18	Uplink

450 – 460 MHz	25 W	TETRA	EN 303 035 EN 301 489-18	Uplink
870 – 876 MHz	15 W	TETRA	EN 303 035 EN 301 489-18	uplink
390 – 395MHz	10 W	TETRA	EN 303 035 EN 301 489-18	downlink
395 – 399.99 MHz	6.3 W	TETRA	EN 303 035 EN 301 489-18	downlink
420 – 430 MHz	4 W	TETRA	EN 303 035 EN 301 489-18	downlink
460 – 470 MHz	2.5 W	TETRA	EN 303 035 EN 301 489-18	downlink

Licensing Requirements

A spectrum license is required.

Additional Requirements

There is no additional requirements for this technical specification.

References

The following referenced documents are indispensable for the application of this document. If no issue or revision number is quoted along with the title of a technical specification or standard, the latest published version should be used.

EN 303 035-1

Harmonized EN for TETRA equipment covering essential requirements under Article 3(2) of the R&TTE Directive – Part 1: Voice plus Data (V+D).

EN 303 035-2

Terrestrial Trunked Radio (TETRA); Harmonised EN for TETRA equipment covering essential requirements under article 3.2 of the R&TTE Directive; Part 2: Direct Mode Operation.

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 301 489-18

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Comp ability (EMC) standard for radio equipment and services; Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment.

History

For reference, the latest versions of the technical specifications are published on the CITC website www.citc.gov.sa.

Description	Status	Date
	Issue 1	11/03/2006
	Issue 2	10/01/2010
	Issue 3	02/03/2021

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