

CITC Technical Specification

Specification for TETRAPOL Base Stations and Ancillary Equipment

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Scope

This specification applies to TETRAPOL base stations and ancillary equipment.

Enforcement

This specification shall enter into force on 20/07/2021.

Any previous version of this technical specification is withdrawn.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. Please visit 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 obtained by coordinating with the mobile network operators.
- 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 POL	EN 300 086 EN 300 113 EN 301 489-5	Up- and downlink
380 – 390 MHz	Subject to licensing	TETRA POL	EN 300 086 EN 300 113 EN 301 489-5	Up- and downlink
410 – 420 MHz	Subject to licensing	TETRA POL	EN 300 086 EN 300 113 EN 301 489-5	Up- and downlink

450 – 460 MHz	Subject to licensing	TETRA POL	EN 300 086 EN 300 113 EN 301 489-5	Up- and downlink
870 – 876 MHz	Subject to licensing	TETRA POL	EN 300 086 EN 300 113 EN 301 489-5	Up- and downlink
390 – 395MHz	Subject to licensing	TETRA POL	EN 300 086 EN 300 113 EN 301 489-5	Up- and downlink
395 – 399.99 MHz	Subject to licensing	TETRA POL	EN 300 086 EN 300 113 EN 301 489-5	Up- and downlink
420 – 430 MHz	Subject to licensing	TETRA POL	EN 300 086 EN 300 113 EN 301 489-5	Up- and downlink
460 – 470 MHz	Subject to licensing	TETRA POL	EN 300 086 EN 300 113 EN 301 489-5	Up- and 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 300 086-2

Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech. Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.

EN 300 113-2

Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Part 2: 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 301 489-5

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech).

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	10/07/2021