

CITC Technical Specification

Specification for TETRA Handsets and Ancillary Equipment

Document Number: RI011

Revision: Issue 03

Date: 10/07/2021

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 84 of the Telecommunications Bylaw.

Communications and Information Technology Commission (CITC)
P.O Box 75606 – Riyadh 11588 - Kingdom of Saudi Arabia

 Telephone:
 + 966 1 14618000

 Fax:
 + 966 1 14618120

 E-mail:
 info@citc.gov.sa

 Website:
 www.citc.gov.sa

Contents

cope
nforcement3
eneral Requirements4
imits and conditions
icensing Requirements6
dditional Requirements6
eferences
listory

Scope

This specification applies to Terrestrial Trunked Radio TETRA Handsets 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Any previous version of this technical specification is withdrawn.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
			EN 300 086 EN 302 561 EN 303 035-1	
350 - 370 MHz	Subject to licensing	TETRA	EN 303 035-2 EN 300 394-1 EN 301 489-1 EN 301 489-5 EN301 489-18	Up- and downlink

		TETRA	EN 300 086	
			EN 302 561	
			EN 303 035-1	
380 – 390	Subject to		EN 303 035-2	Life and described
MHz	licensing		EN 300 394-1	Up- and downlink
			EN 301 489-1	
			EN 301 489-5	
			EN 301 489-18	
		TETRA	EN 300 086	
			EN 302 561	
			EN 303 035-1	
	Subject to		EN 303 035-2	
410 - 420 MHz	licensing		EN 300 394-1	Up- and downlink
			EN 301 489-1	
			EN 301 489-5	
			EN 301 489-18	
		TETRA	EN 300 086	
			EN 302 561	
			EN 303 035-1	
450 - 460	Subject to		EN 303 035-2	
MHz	licensing		EN 300 394-1	Up- and downlink
			EN 301 489-1	
			EN 301 489-5	
			EN 301 489-18	
		TETRA	EN 300 086	
			EN 302 561	
			EN 303 035-1	
870 - 876	Subject to		EN 303 035-2	
MHz	licensing		EN 300 394-1	Up- and downlink
			EN 301 489-1	`\\\
			EN 301 489-5	
			EN 301 489-18	

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

Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU

EN 302 561

Land Mobile Service; Radio equipment using constant or non-constant envelope modulation operating in a channel bandwidth of 25 kHz, 50 kHz, 100 kHz or 150 kHz.

ETSI EN 303 035-1

Terrestrial Trunked Radio (TETRA); Part 1: Voice plus Data (V+D)

ETSI EN 303 035-2

Terrestrial Trunked Radio (TETRA); Part 2: Direct Mode Operation (DMO)

ETSI EN 300 394-1

Terrestrial Trunked Radio (TETRA); Conformance testing specification:
Part 1: Radio

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).

EN 301 489-18

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (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	10/07/2021