

CITC Technical Specification

Specification for Ground Navigation Equipment

Document Number: RI091
Revision: Issue 02
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

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Scope

This specification applies to ground navigation equipment.

Ground navigation equipment are used to determine the actual location including GPS equipment for example.

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Any previous version of this technical specification is withdrawn.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.
- 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
1164 – 1215 MHz	Receiver only	ground navigation	EN 303 413 EN 301 489-19	E5a, E5b, L5
1559 – 1610 MHz	Receiver only	ground navigation	EN 303 413 EN 301 489-19	B1, E1, G1, L1
1563 – 1591 MHz	Receiver only	ground navigation	EN 303 413 EN 301 489-19	L1
1215 – 1300 MHz	Receiver only	ground navigation	EN 303 413 EN 301 489-19	E6, G2, L2

Licensing Requirements

No licensing requirements apply.

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 303 413

Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

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 301 489-19

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

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	10/01/2010
Merge of RI091 “Navigation (Ground) Equipment” and RI102 “GPS Receiver”	Issue 2	10/07/2021