

CITC Technical Specification

Specification for Satellite Interactive Terminals (SIT), Satellite User Terminals (SUT) and ancillary equipment

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Scope

This specification applies to Satellite Interactive Terminals (SIT) and Satellite User Terminals (SUT) and ancillary equipment.

The Satellite Interactive and User Terminals are bidirectional terminals for the communication via satellite. The terminals are either installed at fixed places or mobile.

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Any previous version of this technical specification is withdrawn.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 |
|-------------------|------------------------------------|-------------------|---|----------|
| 4.0 – 4.2 GHz | Subject to licensing | SIT/SUT equipment | EN 301 459 EN 301 360 EN 301 489-12 | |
| 5.725 – 7.075 GHz | Subject to licensing | SIT/SUT equipment | EN 301 459 EN 301 360 EN 301 489-12 | |
| 10.7 – 13.25 GHz | Subject to licensing | SIT/SUT equipment | EN 301 459 EN 301 360 | |

| | | | | |
|---------------------|-------------------------|----------------------|---|--|
| | | | EN 301 489-12 | |
| 13.75 – 14.5 GHz | Subject to licensing | SIT/SUT equipment | EN 301 459 EN 301 360 EN 301 489-12 | |
| 17.3 – 18.4 GHz | Subject to licensing | SIT/SUT equipment | EN 301 459 EN 301 360 EN 301 489-12 | |
| 17.7 – 20.2 GHz | Subject to licensing | SIT/SUT equipment | EN 301 459 EN 301 360 EN 301 489-12 | |
| 27.5 – 30.0 GHz | Subject to licensing | SIT/SUT equipment | EN 301 459 EN 301 360 EN 301 489-12 | |

Licensing Requirements

An operator and spectrum license is required to use this service.

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 301 459

Satellite Earth stations and Systems (SES); Harmonised EN for Satellite Interactive Terminal (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 29.5 – 30.0 GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive.

EN 301 360

Satellite Earth stations and Systems (SES); Harmonised EN for Satellite Interactive Terminal (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 27.5 – 29.5 GHz frequency bands 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 301 489-12

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal (VSAT), Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GHz in the Fixed Satellite Service (FSS).

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 |