

## CITC Technical Specification

# Specification for VSAT Terminals and Ancillary Equipment

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# Contents

- Scope ..... 3
- Enforcement ..... 3
- General Requirements ..... 4
- Limits and conditions ..... 4
- Licensing Requirements ..... 5
- Additional Requirements ..... 5
- References ..... 6
- History ..... 7

## Scope

This specification applies VSAT terminals and ancillary equipment.

The very small aperture terminal or VSAT service is a bidirectional communication technology offering a satellite based communication between ground based mobile terminals often used for the transfer of video and audio data between a mobile station in a vehicle and a central broadcasting stations.

## 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Any previous version of this technical specification is withdrawn.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](http://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
Subject to licensing	Subject to licensing	Fixed Satellite Services (FSS)	EN 301 426 EN 301 489-12	
Subject to licensing	Subject to licensing	VSAT	EN301 443 EN 301 489-12	

## Licensing Requirements

- A spectrum license is required.
- VSAT System Communications Service license is required for usage and importation of this equipment.

## 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 301 426

Satellite earth stations and Systems (SES); Harmonised EN for low data rate land mobile satellite earth stations (LMES) operating in the 1.5/1.6 GHz frequency bands covering essential requirements under Article 3(2) of the R&TTE directive.

### EN 301 443

Satellite Earth stations and Systems (SES); Harmonised EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4GHz and 6GHz frequency bands covering essential requirements under article 3.2 of the R&TTE directive.

### EN 301 428

Satellite Earth stations and Systems (SES); Harmonised EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit/receive or receive-only satellite earth stations operating in the 11/12/14 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](http://www.citc.gov.sa).

Description	Status	Date
	Issue 1	11/03/2006
	Issue 2	10/01/2010
	Issue 3	10/07/2021