



## CITC Technical Specification

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### Specification for Short Range Wideband Data Transmission Systems and Ancillary Equipment

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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## Scope

This document applies to Short Range Wideband Data Transmission Systems and Ancillary 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 <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.

## Entry into force

This specification shall enter into force on 15/12/2018 G

## Frequency of operation

The following table is showing information on frequency bands, maximum output power and applicable specifications:

Frequency band	Maximum Output Power	ETSI Standard
2400.0-2483.5 MHz	100 mW e.i.r.p. <sup>1</sup>	EN 300 328
5150 -5250 MHz	200 mW mean e.i.r.p. <sup>1</sup> (For indoor use only)	EN 301 893
5250 – 5350 MHz	200 mW e.i.r.p.	EN 301 893
5470 – 5725 MHz	1000 mW mean e.i.r.p. <sup>2</sup>	EN 301 893
5470 - 5825 MHz	1 W e.i.r.p. <sup>2</sup>	EN 300 440 EN 302 502
57 - 66 GHz	40 dBm mean e.i.r.p. <sup>3</sup> ( outdoor installations are prohibited)	EN 302 567

### NOTES:

<sup>1</sup>The maximum mean e.i.r.p density is limited to 10 mW/MHz;

<sup>2</sup>The maximum mean e.i.r.p density is limited to 50 mW/MHz;

<sup>3</sup>The maximum mean e.i.r.p density is limited to 13 dBm/MHz.

## Proof of compliance

It is required 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.

## Technical requirements

Testing should be carried out to ensure compliance with the following specifications:

### EN 300 328

Electromagnetic compatibility and Radio spectrum Matters (ERM) .-  
Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques -  
Harmonized EN covering essential requirements under Article 3(2) of the R&TTE directive.

### EN 301 893

Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE directive.

### **EN 302 567**

Broadband Radio Access Networks (BRAN); 60 GHz Multiple-Gigabit WAS/RLAN Systems; Harmonized EN covering the essential requirements of 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 301 489-17**

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment.

If no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

### **General**

In addition to meeting the above requirements, all equipment must comply with the requirements of CITC specifications GEN001, be safe and must not adversely affect other electrical equipment.

## **Additional requirements**

All equipment must comply with the Wireless Local Area Networks Regulation. See <http://www.citc.gov.sa/> for details.

## **Obtaining technical standards**

ETSI technical standards may be obtained free of charge for individual use from the ETSI website [www.etsi.org](http://www.etsi.org).

## **Network information (only for network interfaces)**

Further information on the characteristics and presentation of network interfaces can be found by visiting operator's website.

## **Document history**

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	29/09/2008 G
	Issue 3	25/09/2017 G
	Issue 4	15/12/2018 G