



## CITC Technical Specification

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## Specification for WiFi Router with WiMAX

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 WiFi Router with WiMAX.

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 10/01/2010 G

## Frequency of operation

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

Frequency band	Maximum Output Power or Magnetic Field	ETSI Standard
3.400 – 3.600 GHz	*	EN 302 623
3.600 - 3.800 GHz	*	EN 302 623
2.500 - 2.6860 GHz	*	EN 302 544-2
2.400 - 2.4835 GHz	100 mW e.i.r.p.	EN 300 328
5.150 -5.250 GHz	200 mW e.i.r.p. Max mean	EN 301 893
5.250 - 5.350 GHz	200 mW e.i.r.p. Max mean	EN 301 893
5.470 - 5.825 GHz	1000 mW e.i.r.p. Max mean	EN 301 893
5.425 - 5.825 GHz	25 mW e.i.r.p. Max mean	EN 300 440

\*Maximum output power will be determined by CITC on a case-by-case decision.

## Proof of compliance

It is recommended 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 302 544-2

Broadband Data Transmission Systems operating in the 2500 MHz to 2690 MHz frequency band; Part 2: TDD User Equipment Stations; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE directive.

### EN 302 623

Broadband Wireless Access Systems (BWA) in the 3400 MHz to 3800 MHz frequency band; Mobile Terminal Stations; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE directive.

**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 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 301 489-4**

Electromagnetic compatibility and Radio spectrum Matters (ERM);  
Electromagnetic Compatibility (EMC) standard for radio equipment and  
services; Part 4: Specific conditions for fixed radio links and ancillary  
equipment and services.

**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 requirement of CITC specification GEN001, be safe and must not  
adversely affect other electrical equipment.

**Additional requirements**

A licence must be obtained before equipment of this type can be used in the  
Kingdom. This licence will detail conditions of use and any additional  
requirements which must be met.

**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

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	Issue 1	10/01/2010 G