



Telecommunications Authority of Maldives

Technical Standard
for
Wireless LAN

(Operating in the 2.400 – 2.4835 GHz,
5.150 – 5.350 GHz & 5.725 – 5.850 GHz bands)

TAM TS 100/2004-WLAN

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Telecommunications Authority of Maldives

Telecom Building

Male', Maldives

<http://www.tam.gov.mv>

1 SCOPE OF STANDARD

1.1 This standard specifies the minimum technical and compliance requirements for Wireless LAN (including Bluetooth) devices designed and intended to use for communication within the confined area of a building as well as localised on-site operation. **For out-door non-localised operation, it shall be considered and approved on a case-by-case basis and is subjected to licensing.**

1.2 The frequencies or frequency bands are also allocated for use by low power devices and Industrial, Scientific and Medical (ISM) equipment. Users operating in these bands are advised to consider the potentiality of interference due to the shared use of the frequencies and cannot claim protection of interference for their use of these frequencies.

1.3 The equipment that has been type approved under this specification will be permitted for sale and use in Maldives.

2 TECHNICAL REQUIREMENTS

2.1 The Wireless LAN devices shall operate on one or more of the following frequency bands and output powers:-

Frequency Band	Output Power
2.400 – 2.4835 GHz	100 mW e.i.r.p.
5.150 – 5.350 GHz	200 mW e.i.r.p.
5.725 – 5.850 GHz	100 mW e.i.r.p.

2.2 Wireless LAN operating in the 5.250 – 5.350 GHz band shall implement dynamic Frequency Selection (DFS).

2.3 Wireless LAN operating in the 5.250 – 5.350 GHz band shall implement Automatic Transmitter Power Control (ATPC) to ensure a mitigation factor of at least 3dB on the average output power. If the ATPC is not implemented, the power limit should be reduced to 100 mW e.i.r.p.

3 COMPLIANCE

3.1 Applicants must ensure that the equipment has been tested to and complies with the requirements as stipulated under one or more of the following:

- i) FCC Rules Part 15.247 or 15.407
- ii) MPT 1349
- iii) ETSI EN 300 328 or EN 301 893

3.2 All Wireless LAN devices must be tested by test houses that are authorized by the administration of the country to which they belong.

3.3 A Wireless LAN device declared as a Bluetooth device should have obtained qualification from Bluetooth Qualification Body (BQB) and be listed in the Qualified Products List (QPL).

3.4 The Telecommunications Authority of Maldives (TAM) reserves the right to prescribe from time to time any additional requirements it deems fit for compliance by the applicants.

4 ACCESS TO CONTROLS

The Wireless LAN device shall be so constructed that there are no external or readily accessible controls, which may be adjusted to permit operation in a manner inconsistent with this specification.

5 SAFETY AND HEALTH

5.1 This standard does not cover the radiation limits of radio emissions required for safety and health. The Wireless LAN devices are required to meet one or more applicable radiation safety standards specifying limits of exposure to radio (non-ionising) radiation such as:

- a) Institute of Electrical and Electronic Engineers, ANSI/IEEE C95.1-1999/FCC OET No. 65:1997
- b) International Commission on Non-Ionising Radiation Protection (ICNIRP 1998) Guidelines for limiting exposure to time-varying EMFs in the frequency range up to 300 GHz.
- c) Department of Health and Welfare Canada, Safety Code 6 (1999) / Canada – RSS-102: 1999 (Industry Canada)
- d) Australia – Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 1999, including amendment No. 1: 2000/ACA AS/ NZS 2772.1
- e) EU Countries – CENELEC ES59005 (1998)
- f) Verband Deutscher ElektroIngenieure (VDE) DIN-0848
- g) National Radiological Protection Board of the United Kingdom DOCS.NRPB, 4, No. 5 (1993).

6 AMENDMENT AND DECISION

6.1 TAM may change this standard without prior notice in order to keep pace with the international and regional trends.

6.2 In cases of doubt with regard to the interpretation of the standard and the validity of the statements made by the manufacturers of the equipment, the decision of the TAM shall be final.