



Communications Authority of Maldives

**Technical Standard
For
Short Range Devices**

**CAM TS 103/2022- SRD
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1 SCOPE OF STANDARD

- 1.1 This standard specifies the minimum technical and compliance requirements for Short Range Devices. (SRD)
- 1.2 Short Range Device is intended for operation in unprotected and shared frequency bands 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 Short-Range Devices shall operate on one or more of the following frequency bands and output powers: -

#	Authorized Frequency bands/ frequencies	Max. Field Strength/ RF Output power	SRD Applications
1	433.05 – 434.79MHz	≤ 10mW (e.r.p.) ≤ 50mW(e.r.p.) ≤ 100mW(e.r.p.)	Radio Telemetry Security, remote control device SRC device and RFID
2	312.00 – 316.00MHz	≤ 100 mW (e.r.p.)	Security, remote control device
3	866.00 – 869.00MHz	≤ 500mW (e.r.p.)	Security device, SRC Device, security device, RFID
4	920.00 – 925.00MHz	≤ 500mW (e.r.p.)	RFID

3 COMPLIANCE

- 3.1 Applicants must ensure that the equipment has been tested and complies with the requirements as stipulated under one or more of the followings:
- i) ETSI EN 300 220-1 v2.4.1 (2012-01) “Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods”
 - ii) ETSI EN 302 208 “Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio Frequency identification equipment operating in the band 865MHz to 868MHz with power levels up to 2W
 - iii) ETSI EN 301 220-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio Equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods
 - iv) ARIB STD-T93 V 1.1, 315 MHz-band telemeter, telecontrol and data transmission radio equipment for specified low-power radio station

- 3.2 All Short-Range Devices must be tested by test houses that are authorized by the administration of the country to which they belong.

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

4 ACCESSES TO CONTROLS

The Short-Range 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 SAFETIES AND HEALTH

5.1 This standard does not cover the radiation limits of radio emissions required for safety and health. The short-range 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 Elektrolingenieure (VDE) DIN-0848
- g) National Radiological Protection Board of the United Kingdom DOCS.NRPB, 4, No. 5 (1993).

6 AMENDMENTS AND DECISION

6.1 CAM 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 CAM shall be final.