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**PERFORMANCE SPECIFICATION FOR
SHORT RANGE DEVICES
OPERATING IN THE 433 MHZ BAND**



TELECOMMUNICATIONS AUTHORITY
HONG KONG

FOREWORD

1. This specification is prescribed under section 32D of the Telecommunications Ordinance (Cap 106) (“the Ordinance”) to set out the technical requirements for Short Range Devices (SRD) operating in the 433 MHz band in Hong Kong. Radiocommunications apparatus falling into the scope of this specification, unless covered by other application-specific specification, shall meet the stipulated requirements.
2. Under the Ordinance, the possession or use of any radiocommunications apparatus or any apparatus emitting radio frequency energy must be covered by an appropriate licence issued by the Telecommunications Authority (TA) with the exception of those specifically exempted from licensing under the Ordinance, such as those covered by the Telecommunications (Telecommunications Apparatus) (Exemption from Licensing) Order.
3. At present, the Office of the Telecommunications Authority (OFTA) operates a **Hong Kong Telecommunications Equipment Evaluation and Certification (HKTEC) Scheme**. Details of the HKTEC Scheme can be found in the information note OFTA I 421. Under the Scheme, suppliers or manufacturers of the radiocommunications apparatus may apply for certification of their apparatus against this specification. The application procedures for certification of radiocommunications apparatus can be found in the information note OFTA I 401. A prescribed label may be affixed to the certified equipment. Details of the labelling arrangement can be found in the Standardisation Guide HKTA 3211.
4. The TA may amend any part of this specification as and when he deems necessary.
5. In case of doubt about the interpretation of this specification, the methods of carrying out the test and the validity of statements made by the equipment manufacturers or suppliers about the equipment, the decision of the TA shall be final.
6. The HKTA specifications and information notes issued by the TA can be downloaded from OFTA’s website at <http://www.ofta.gov.hk>. Enquiries about this specification may be directed to:

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1. SCOPE OF SPECIFICATION

- 1.1 This specification defines the minimum performance requirements for Short Range Devices (SRD) operating in the 433 MHz band.

2. ELECTRICAL SAFETY REQUIREMENTS

- 2.1 If the equipment is for connection to the public telecommunications network, it shall comply with the electrical safety requirements set out in HKTA 2001 "Compliance Test Specification - Safety and Electrical Protection Requirements for Subscriber Telecommunications Equipment" issued by the TA.

3. TECHNICAL REQUIREMENTS

- 3.1 The main technical requirements shall be as follows:

- (a) Frequency band: 433.00 – 434.79 MHz
- (b) Maximum power: 10 mW effective radiated power

- 3.2 The other technical requirements shall be in accordance with one of the following:

- (i) ETSI EN 300 220-1 “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) Code of Federal Regulations (USA); Title 47 Telecommunication; Chapter 1 Federal Communications Commission, Part 15 Radio Frequency Devices
- (iii) The relevant clauses on “各类民用设备的无线控制装置” in the technical requirement document issued by the MIIT of PRC entitled “关于发布《微功率（短距离）无线电设备的技术要求》的通知” at the following link:
<http://wgj.miit.gov.cn/n11293472/n11295310/n11297428/11637344.html>

4. EVALUATION REQUIREMENTS

- 4.1 Compliance of the equipment with the technical requirements shall be evaluated in accordance with the procedures specified in the standard given in respective clause 3.2 (i) or (ii) or other test method subject to agreement by the TA.

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