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**PERFORMANCE SPECIFICATION
FOR DIGITAL FIXED LINK EQUIPMENT
OPERATING IN THE
23 GHz FREQUENCY 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 and evaluation requirements for terrestrial digital fixed link equipment operating in the 23 GHz frequency band, based on the European Standards published by the European Telecommunications Standards Institute (ETSI). Radiocommunications apparatus falling into the scope of this 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 shall apply to OFTA 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.
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:

Senior Telecommunications Engineer, Standards Section
Office of the Telecommunications Authority,
29/F Wu Chung House,
213 Queen’s Road East, Wanchai, Hong Kong.

Fax : +852 2838 5004
Email : standards@ofta.gov.hk

AMENDMENT HISTORY

Item	Issue No.	Paragraph	Descriptions
1.	Issue 2 February 2003	Foreword	Editorial changes.
2.	Issue 3 Dec 2011	2	Split paragraph 2 into paragraphs 2 and 3. Remove reference to ETSI EN 300 198. Add reference to ETSI EN 302 217-2-2.
3.	Issue 3 Dec 2011	3	Renumber paragraph 3 to paragraph 4. Update title of ETSI EN 301 126-1.

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1. SCOPE OF SPECIFICATION

This Specification specifies the minimum performance requirements for terrestrial digital fixed link equipment operating in the 23 GHz frequency band.

2. GENERAL CHARACTERISTICS

2.1 Frequency Range

The equipment shall operate in the frequency range 22 GHz to 22.6 GHz paired with 23 GHz to 23.6 GHz.

2.2 Channel Arrangements

The equipment shall operate in accordance with the channel arrangements specified in Annex 3 of ITU-R Recommendation F.637-3.

NOTE: Details of the Hong Kong band plan in the 23 GHz frequency band are given in the “Hong Kong Table of Frequency Allocations” issued by OFTA.

3. TECHNICAL REQUIREMENTS

The technical requirements of the equipment shall be in accordance with ETSI EN 302 217-2-2 “Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 2-2: Digital systems operating in frequency bands where frequency co-ordination is applied; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive”.

4. TEST METHODS

The test methods shall be in accordance with the ETSI EN 301 126-1 “Fixed Radio Systems; Conformance testing; Part 1: Point-to-point equipment - Definitions, general requirements and test procedures”.

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