

**PERFORMANCE SPECIFICATION FOR
DIGITAL FIXED LINK EQUIPMENT
OPERATING IN THE
18 GHz FREQUENCY BAND**

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 fixed link equipment operating in frequency range 17.7 GHz – 19.7 GHz (the “18 GHz frequency band”). 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 Communications Authority (CA) 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 Communications Authority (OFCA) operates a Hong Kong Telecommunications Equipment Evaluation and Certification (HKTEC) Scheme. Details of the HKTEC Scheme can be found in the information note OFCA 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 OFCA I 401. A prescribed label may be affixed to the equipment which has been certified. Details of the labelling arrangement can be found in the Standardisation Guide HKCA 3211.
4. The CA may amend any part of this specification as and when it 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 CA shall be final.
6. The HKCA specifications and information notes issued by the CA can be downloaded from OFCA’s website at <http://www.ofca.gov.hk>. Enquiries about this specification may be directed to:

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

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

AMENDMENT TABLE

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1.	Issue 1 [Date]	All	First Release

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1. SCOPE OF SPECIFICATION

This Specification specifies the minimum performance requirements for terrestrial digital fixed link equipment operating in the 18 GHz frequency band.

2. GENERAL CHARACTERISTICS

2.1 Frequency Range

The equipment shall operate in the frequency range 17.7 – 19.7 GHz.

2.2 Channel Arrangements

The equipment shall operate in accordance with the channel arrangements specified in ITU-R Recommendation F.595 “Radio-frequency channel arrangements for fixed wireless systems operating in the 17.7 – 19.7 GHz frequency band”.

Note : Details of the Hong Kong band plan in the 18 GHz frequency band are given in the “Hong Kong Table of Frequency Allocations” issued by OFCA.

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

Compliance of the equipment with the technical requirements shall be evaluated in accordance with the procedures specified in the respective standards published by ETSI as given in clause 3.

5. REFERENCE

- (a) 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”

- (b) ITU-R Recommendation F.595 “Radio-frequency channel arrangements for fixed wireless systems operating in the 17.7 – 19.7 GHz frequency band”

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