

HKCA 1081
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**PERFORMANCE SPECIFICATION
FOR RADIOCOMMUNICATIONS APPARATUS
OPERATING IN THE 6 GHz BAND FOR
WIRELESS LOCAL AREA NETWORK**



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 radiocommunications apparatus operating in the 6 GHz band for wireless local area network. 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 (Cap. 106Z).
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 HKTEC Scheme, suppliers or manufacturers shall/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 shall/may be affixed to the certified apparatus. Details of the labelling arrangement can be found in the Standardisation Guide HKCA 3211.
4. 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 manufacturers or suppliers about the apparatus, the decision of CA shall be final.
6. The HKCA specifications and information notes issued by CA can be downloaded from OFCA’s website at <https://www.ofca.gov.hk>. Enquiries about this specification may be directed to:

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AMENDMENT HISTORY

Item	Issue No.	Clause	Descriptions
1.	Issue 1 April 2022	All	First release
2.	Issue 2 August 2025	2 2.1 2.3	Remove the electrical safety requirements Clarify the guard band requirement Clarify the equipment categories requirement

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1. SCOPE OF SPECIFICATION

This specification defines the minimum performance requirements for radiocommunications apparatus operating in the 6 GHz band for wireless local area network (hereafter referred to as the “apparatus”).

2. TECHNICAL REQUIREMENTS

2.1 The apparatus shall operate in all, or part thereof, the 5.945 – 6.425 GHz frequency band. The 5.925 – 5.945 GHz frequency band is reserved as a guard band.

2.2 The maximum output power of the apparatus shall not exceed the limits indicated below:

Location of Use	Output Power (EIRP)
Indoor	24 dBm
Outdoor	14 dBm

2.3 The apparatus shall meet the technical requirements specified in the standard ETSI EN 303 687 “6 GHz WAS/RLAN; Harmonised Standard for access to radio spectrum”¹ published by the European Telecommunications Standards Institute (“ETSI”). The apparatus shall operate in the equipment categories as defined in ETSI EN 303 687, in particular Low Power Indoor (LPI) and Very Low Power (VLP).

3. EVALUATION REQUIREMENTS

Compliance of the apparatus with the technical requirements shall be evaluated in accordance with the procedures specified in the standard given in clause 2.3 above.

4. REFERENCE

ETSI EN 303 687 “6 GHz WAS/RLAN; Harmonised Standard for access to radio spectrum”

- END -

¹ According to the power level specified in 2.2 above, the RF output power limit of 23 dBm EIRP and the power spectral density limit of 10 dBm/MHz EIRP as specified in clauses 4.3.2 and 4.3.3 of EN 303 687 are allowed to be increased by 1 dB to 24 dBm EIRP and 11 dBm/MHz EIRP respectively.