Annex 2 to SSAC Paper 5/2026

HKCA 1072

ISSUE ~~1~~2

~~JANAURY 2015~~JULY 2026

PERFORMANCE SPECIFICATION

FOR ~~BASE STATION FOR~~

~~USE IN~~ EVOLVED UNIVERSAL TERRESTRIAL

RADIO ACCESS (E-UTRA)

TIME DIVISION DUPLEX (TDD) ~~NETWORK~~

BASE STATION

通訊事務管理局
COMMUNICATIONS
AUTHORITY

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 ~~Base Station for use in~~ Evolved Universal Terrestrial Radio Access (E-UTRA) Time Division Duplex (TDD) ~~Network~~, E-UTRA TDD with Narrowband – Internet of Things (NB-IoT) and NB-IoT Base Station (BS). ~~It is a condition of the licence for the broadband wireless access services that radio~~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 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.

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~~apparatus, the decision of ~~the~~ CA shall be final.

6. The HKCA specifications and information notes issued by ~~the~~ CA can be ~~obtained~~downloaded from OFCA's website at https://www.ofca.gov.hk. Enquiries about this specification ~~can~~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

Item	Issue No.	~~Paragraph~~Clause	Description
1.	Issue 1 January 2015	All	First Release
2.	Issue 2 July 2026	Foreword, 1 2, 3, 4	Included NB-IoT base station in the scope for clarity, and moved the updated list of operating frequency bands to Clause 1. Added the relevant 3GPP standards and the associated technical requirements, and updated the titles of the ETSI standards.

CONTENT

1. SCOPE

This specification sets out the ~~performance~~technical and evaluation requirements for Evolved Universal Terrestrial Radio Access (E-UTRA) Time Division Duplex (TDD), E-UTRA TDD with Narrowband – Internet of Things (NB-IoT) and NB-IoT Base Station (BS) (hereafter referred to as "the equipment") ~~for use in Evolved Universal Terrestrial Radio Access (E-UTRA) Time Division Duplex (TDD) Network~~.

The equipment is capable of operating in all or any part of the frequency bands below –

Band Arrangement	**Uplink (BS Receive)**	**Downlink (BS Transmit)**
Unpaired Band	2300 – 2390 MHz	
	3300 – 3400 MHz	
	3400 – 3600 MHz	

~~2. OPERATING FREQUENCIES~~

~~The equipment shall operate in the frequency range 2300 – 2390 MHz.~~

~~3~~2. TECHNICAL REQUIREMENTS

2.1 The equipment shall ~~meet~~comply with the technical requirements ~~as~~ specified in ~~the following~~all relevant standards published by the European Telecommunications Standards Institute (ETSI) ~~-~~and the 3rd Generation Partnership Project (3GPP) (excluding test items that are not covered in the corresponding ETSI standards) given in subclauses (a) and (b) below –

(a) (i) ETSI EN 301 908-1 "IMT cellular networks; ~~Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive~~Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements"

OR

(ii) 3GPP TS 36.113 "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)"

(b) (i) ETSI EN 301 908-14 "IMT cellular networks; ~~Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive~~Harmonised Standard for access to radio spectrum; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)"

OR

(ii) 3GPP TS 36.141 “Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing”

2.2 For equipment operating in the 3400 – 3600 MHz band, any unwanted emissions in the 3700 – 4200 MHz band shall not exceed -52 dBm/MHz.

43. EVALUATION REQUIREMENTS

~~The equipment shall comply with the operating frequencies and technical requirements as specified in clauses 2 and 3 respectively.~~ Compliance of the equipment with the technical requirements shall be evaluated in accordance with the procedures specified in the respective ~~ETSI~~ standards ~~as~~ given in clause ~~3~~ 2.

54. REFERENCE

(a) ETSI EN 301 908-1 –"IMT cellular networks; ~~Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive~~Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements", ~~published by the ETSI~~

(b) ETSI EN 301 908-14 –"IMT cellular networks; ~~Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive~~Harmonised Standard for access to radio spectrum; Part 14:- Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)", ~~published by the ETSI~~

(c) 3GPP TS 36.113 "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)"

(d) 3GPP TS 36.141 "Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing"

- END -