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**PERFORMANCE SPECIFICATION
FOR BASE STATION AND
REPEATER EQUIPMENT FOR
USE IN THE THIRD GENERATION (3G)
MOBILE COMMUNICATIONS SERVICES
EMPLOYING CDMA DIRECT SPREAD
(UTRA FDD)**



**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 Base Station (BS) and Repeater equipment for use in the 3G Mobile Communications Services employing CDMA Direct Spread (UTRA FDD). It is a condition of the licence for the 3G services that radio 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 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 reserves the right to give separate certification to models he considers to be technical variants and the performance of which may differ between models.
5. The TA may amend any part of this specification as and when he deems necessary.
6. 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.
7. The HKTA specifications and information notes are issued by the TA. The documents can be obtained through one of the following methods —
 - downloading direct through the OFTA's Internet Home Page. The Home Page address is <http://www.ofa.gov.hk>;
 - making a request for hard copies to :-

Radio Laboratory,
Standards Section,
Office of the Telecommunications Authority,
29/F Wu Chung House,
213 Queen's Road East,
Wanchai,
Hong Kong.

Fax: +852 2343 5824
Email: certification@ofta.gov.hk

8. Enquiries about this specification may be directed to —

Radio Laboratory, Standards Section,
Office of the Telecommunications Authority,
29/F Wu Chung House,
213 Queen's Road East, Wanchai, Hong Kong.

Fax : +852 2343 5824
Email: certification@ofta.gov.hk

AMENDMENT TABLE

Item	Issue No.	Paragraph	Description
1.	Issue 1 June 2002	All	First Release
2.	Issue 2 February 2003	Foreword	Editorial changes.
3.	Issue 3 January 2008	Clauses 1 and 3	The scope of the specification is extended to cover repeater equipment.
4.	Issue 4 June 2008	Clause 2	Additional operating frequency bands at 900 MHz and 1800 MHz are added.

CONTENTS

1. SCOPE OF SPECIFICATION
2. OPERATING FREQUENCIES
3. PERFORMANCE REQUIREMENTS

1. SCOPE OF SPECIFICATION

This specification sets out the minimum performance requirements for Base Station (BS) and Repeater Equipment (hereafter referred to as “the equipment”) for use in the 3G Mobile Communications Services employing CDMA Direct Spread (UTRA FDD).

2. OPERATING FREQUENCIES

The frequency bands for the equipment are as follows:-

	Lower Block (BS Receive)	Upper Block (BS Transmit)
Paired Band	1920 MHz - 1980 MHz	2110 MHz - 2170 MHz
	880 MHz - 915 MHz	925 MHz - 960 MHz
	1710 MHz - 1785 MHz	1805 MHz - 1880 MHz

3. PERFORMANCE REQUIREMENTS

The equipment shall operate on all or any of the frequencies in Clause 2 and shall meet the technical requirements defined in the following standards published by the European Telecommunications Standards Institute:

- i) EN 301 908-1 Electromagnetic compatibility and Radio spectrum Matters (ERM);
Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks;
Part 1: Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE Directive; and
- ii) EN 301 908-3 Electromagnetic compatibility and Radio spectrum Matters (ERM);
Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks;
Part 3: Harmonized EN for IMT-2000, CDMA Direct Spread (UTRA FDD) (BS) covering essential requirements of article 3.2 of the R&TTE Directive

- iii) EN 301 908-11 Electromagnetic compatibility and Radio spectrum Matters (ERM);
Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks;
Part 11: Harmonized EN for IMT-2000, CDMA Direct Spread (UTRA FDD) (Repeaters) covering essential requirements of article 3.2 of the R&TTE Directive

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