

**PERFORMANCE SPECIFICATION FOR
BASE STATION AND REPEATER EQUIPMENT
FOR USE IN THE THIRD GENERATION (3G)
MOBILE COMMUNICATIONS SERVICES
EMPLOYING CDMA2000 SPREAD SPECTRUM**



**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 minimum performance specification for base station and repeater equipment for use in the 3G Mobile Communications Services employing cdma2000 spread spectrum. It is a condition of the licence for the 3G service 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 shall apply to OFTA for type-approval of the base station 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 type-approval 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 manufacturers of 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.ofta.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,
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1. SCOPE

This specification sets out the minimum performance requirements for base station and repeater equipment (hereafter referred to as “the equipment”) for use in the 3G Mobile Communications Services employing cdma2000 spread spectrum.

2. OPERATING FREQUENCIES

The frequency bands for the equipment are as follows:

Base Station Transmit	Base Station Receive
870 - 880 MHz	825 - 835 MHz

3. PERFORMANCE REQUIREMENTS

The equipment shall meet the requirements of the following standard:

(a) Base Station Equipment

TIA-97 “Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Base Stations” published by the Telecommunications Industry Association (TIA)

(b) Repeater Equipment

TIA-1037 “Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Repeaters” published by the Telecommunications Industry Association (TIA)

4. EVALUATION REQUIREMENTS

The equipment shall comply with the operating frequencies and performance requirements in clauses 2 and 3, and satisfy the following conditions:

- (a) The equipment shall have been certified or successfully tested to demonstrate compliance with the technical requirements as specified in the US Code of Federal Regulations (CFR); Title 47 Telecommunication; Chapter I - Federal Communications Commission; Part 22 Public Mobile Services; Subpart H Cellular Radiotelephone Service.

The certification or test report shall be issued by a body recognised under the HKTEC Scheme; and

- (b) A declaration of compliance with the performance requirements in clause 3 of this specification is made by the equipment manufacturer.

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