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**PERFORMANCE SPECIFICATION FOR  
MOBILE STATION 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 mobile station equipment for use in the 3G Mobile Communications Services employing cdma2000 spread spectrum.
2. Under section 39 of the Ordinance, a person is exempted from the obligation to hold a licence under the Ordinance so long as the conditions set out in the Telecommunications (Telecommunications Apparatus) (Exemption from Licensing) Order (“the Order”) are satisfied. Radiocommunications apparatus falling into the scope of this specification, unless covered by other specification with more specific scope, shall meet the requirements stipulated to fulfil the conditions of the 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 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 OFTA 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 HKTA 3211.
4. The Telecommunications Authority (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,  
29/F Wu Chung House,  
213 Queen's Road East,  
Wanchai,  
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## 1. SCOPE

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

## 2. SAFETY REQUIREMENTS

The equipment shall comply with HKTA 2001 “Compliance Test Specification - Safety and Electrical Protection Requirements for Subscriber Telecommunications Equipment” issued by the Telecommunications Authority (TA).

## 3. OPERATING FREQUENCY

The mobile station shall operate in the following frequency ranges:

<b>Mobile Station Transmit</b>	<b>Mobile Station Receive</b>
825 - 835 MHz	870 - 880 MHz

## 4. PERFORMANCE REQUIREMENTS

The equipment shall comply with the electrical safety requirements and operating frequencies in Clauses 2 and 3 above respectively, and meet the following requirements:

- (a) the requirements as specified in the standard TIA-98 “Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Mobile Stations” published by the Telecommunications Industry Association (TIA) in respect of the following characteristics:

### Transmitter

- (1) conducted spurious emissions
- (2) maximum RF output power
- (3) minimum controlled output power

### Receiver

- (1) conducted spurious emissions
- (2) intermodulation spurious response attenuation
- (3) supervision of Paging Channel or Forward Common Control Channel
- (4) supervision of Forward Traffic Channel with power control subchannel on F-FCH (Forward Fundamental Channel) or F-DCCCH (Forward Dedicated Control Channel)

and

- (b) 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.

## **5. EVALUATION REQUIREMENTS**

For type-approval evaluation, the equipment shall have been certified or successfully tested to demonstrate compliance with the requirements specified in Clause 4 above. The certification or test report shall be issued by a body recognized under the HKTEC scheme.

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