

HKTA 1033

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**PERFORMANCE SPECIFICATION
OF THE MOBILE STATIONS AND PORTABLE
EQUIPMENT FOR USE IN THE
PUBLIC MOBILE RADIOTELEPHONE SERVICE
(PMRS) EMPLOYING GLOBAL SYSTEM FOR
MOBILE COMMUNICATIONS (GSM) AND/OR IN
THE
PERSONAL COMMUNICATIONS SERVICE (PCS)**



**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 mobile stations and portable equipment for use in the Public Mobile Radiotelephone Service (PMRS) employing Global System for Mobile Communications (GSM) operating in the 800-900 MHz band and/or in the Personal Communications Service (PCS) operating in the 1700-1900 MHz band.
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 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 certified equipment. Details of the labelling arrangement can be found in the Standardisation Guide HKTA 3211.
4. The TA may amend any part of this specification as and when he 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 of the equipment, the decision of the TA shall be final.
6. The HKTA specifications and information notes issued by the TA can be downloaded from OFTA’s website at <http://www.ofta.gov.hk>. Enquiries about this specification may be directed to:

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

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AMENDMENT TABLE

Item	Issue No.	Paragraph	Descriptions
1.	Issue 02 July 1998	1,2,3 & 4	The scope of the specification was extended to cover the base station system equipment for use in the PCS. The specification was revised to set out the technical requirements for GSM Phase 1, Phase 2 and Phase 2+ equipment.
		5	The content in this paragraph was moved to the Foreword.
2.	Issue 3	Foreword	Include information about the HKTEC Scheme.
		2	Include electrical safety requirement.
		4	Include updates on the latest ETSI standards and new ETSI conformance specifications for GSM Phase 2+ terminal equipment.
		5	Include updates on the method of type approval evaluation by the TA.
3.	Issue 4	Foreword	Certification and labelling arrangements are updated.
4.	Issue 5	3	The frequency range of GSM mobile stations or handsets is expanded to the Extended GSM (EGSM) band
5.	Issue 6	5	Remove the clause about declaration of compliance.

CONTENTS

- 1. Scope of specification**
- 2. Electrical safety**
- 3. Operating frequencies**
- 4. Technical requirements**
- 5. Evaluation requirements**

1. SCOPE OF SPECIFICATION

This specification sets out the technical and evaluation requirements for mobile stations and portable equipment (hereafter referred to as "the equipment") for use in the Public Mobile Radiotelephone Service (PMRS) employing Global System for Mobile Communications (GSM) operating in the 800-900 MHz band and/or in the Personal Communications Service (PCS) operating in the 1700-1900 MHz band.

2. ELECTRICAL SAFETY

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

3. OPERATING FREQUENCIES

The equipment for use in the GSM service shall have the following operating frequency ranges and carrier spacing:-

<u>Mobile Transmit</u>	<u>Mobile Receive</u>	<u>Carrier Spacing</u>
890-915 MHz	935-960 MHz	200 kHz

The equipment for use in the EGSM¹ service shall have the following operating frequency ranges and carrier spacing:-

<u>Mobile Transmit</u>	<u>Mobile Receive</u>	<u>Carrier Spacing</u>
880-915 MHz	925-960 MHz	200 kHz

The equipment for use in the PCS service shall have the following operating frequency ranges and carrier spacing:-

<u>Mobile Transmit</u>	<u>Mobile Receive</u>	<u>Carrier Spacing</u>
1710-1785 MHz	1805-1880 MHz	200 kHz

4. TECHNICAL REQUIREMENTS

The equipment shall meet the technical requirements as defined in one of the following standards:-

¹ EGSM band stands for Extended GSM band, which includes standard GSM band plus downward extended spectrum of 880 – 890 MHz paired with 925 – 935 MHz.

- i) I-ETS 300 020-1 - “European Digital Cellular Telecommunications System (Phase 1);
Mobile Station Conformance Test System;
Part 1: Mobile Station Conformity Specification”,
issued by the European Telecommunications Standards
Institute (ETSI).
- ii) I-ETS 300 020-3 - “Digital Cellular Telecommunications System (Phase 1);
Mobile Station Conformance Test System;
Part 3: DCS 1800 Mobile Station Conformity
Specification (GSM 11.10-DCS)”, issued by the ETSI
- iii) ETS 300 607-1 - “Digital Cellular Telecommunications System (Phase 2)
(GSM);
Mobile Station (MS) Conformance Specification;
Part 1: Conformance Specification
(GSM 11.10-1)”, issued by the ETSI
- iv) TS 100 607-1 - “Digital Cellular Telecommunications System (Phase 2+)
(GSM);
Mobile Station (MS) Conformance Specification;
Part 1: Conformance Specification
(GSM 11.10-1 / 3GPP TS 11.10-1)”, issued by the ETSI
- v) EN 300 607-1 - “Digital Cellular Telecommunications System (Phase 2+)
(GSM);
Mobile Station (MS) Conformance Specification;
Part 1: Conformance Specification
(GSM 11.10-1)”, issued by the ETSI
- vi) TS 151 010-1 - “Digital Cellular Telecommunications System (Phase 2+);
Mobile Station (MS) Conformance Specification;
Part 1: Conformance Specification
(3GPP TS 51.010-1)”, issued by the ETSI

The technical requirements for the supplementary service laid down in the above standards under reference are applicable only when the equipment supports the relevant supplementary services.

5. EVALUATION REQUIREMENTS

The equipment shall comply with the operating frequencies and technical requirements in clauses 3 and 4, and shall have been certified or successfully tested to demonstrate compliance with applicable parts of EN 301 511 "Global System for Mobile Communications (GSM); Harmonized Standard for Mobile Stations in the GSM 900 and DCS 1800 Bands covering Essential Requirements under Article 3.2 of the R&TTE Directive (1999/5/EC) (GSM 13.11)", issued by the ETSI. The certification or test report shall be issued by a body :

- (i) subject to the conformity assessment procedures described in Annex 4 or Annex 5 of the Radio Equipment and Telecommunications Terminal Equipment Directive (1999/5/EC); or
- (ii) recognised under the HKTEC Scheme.

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