



## **Technical Specification**

for

# **Global Mobile Personal Communication Satellite (GMPCS) Terminals**

IDA TS GMPCS  
Issue 1 Rev 4, Aug 2011

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<p style="text-align: center;"><b>NOTICE</b></p>
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<p style="text-align: center;"><b>This Specification is subject to review and revision.</b></p>
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## **1 General Requirements**

- 1.1 This Specification defines the conformity assessment requirements for handheld or transportable Global Mobile Personal Communication Satellite (GMPCS) terminal equipment seeking equipment registration with IDA for sale.
- 1.2 GMPCS terminal equipment is intended for operating in the 1 – 3 GHz band and with any satellite system (fixed or mobile, broadband or narrow band, global or regional, geostationary or non-geostationary) to provide telecommunication services directly to end users from a constellation of satellites.
- 1.3 Only GMPCS terminal equipment bearing the GMPCS – MoU Mark will be accepted by IDA for equipment registration. The applicant must ensure that:
- (a) The GMPCS System Operator has notified the ITU that it has authorised the GMPCS terminal equipment for connection to its GMPCS System;
  - (b) The GMPCS terminal equipment manufacturer has been authorised by ITU to affix the GMPCS – MoU mark; and
  - (c) At least one Administration or Competent Authority has type approved the GMPCS terminal equipment and has notified ITU.
- 1.4 The GMPCS terminal equipment shall be marked with the manufacturer's name or identification mark, manufacturer's model or type reference, country of manufacture, serial number and the GMPCS – MoU mark approved by ITU. The markings shall be legible, indelible and readily visible.

## **2 Technical Requirements**

### **2.1 Operating Mode**

The GMPCS terminal may be single-mode, dual or multi-mode. It shall comply with the requirements given in clause 2.1.1 or 2.1.2 where applicable.

#### **2.1.1 Single-Mode GMPCS terminal equipment operating with Satellite**

Applicants shall demonstrate that the GMPCS terminal equipment has been tested and certified to comply with international or national standards for GMPCS (e.g. ITU-R M.1343-1).

#### **2.1.2 Dual or Multi-Mode GMPCS terminal equipment operating with Satellite and Terrestrial Cellular Radio Systems**

In addition to the requirements in clause 2.1.1, applicants shall demonstrate that the GMPCS terminal equipment has been tested and certified to comply with the IDA TS CMT.

### **2.2 Safety and Health**

- 2.2.1 Where appropriate, GMPCS terminal equipment shall comply with the International Commission on Non-Ionising Radiation Protection (ICNIRP) guidelines for limiting exposure to time-varying EMFs in the frequency range up to 300 GHz.

2.2.2 It should be noted that compliance with any radiation safety standard does not by itself confer immunity from legal obligations and requirements imposed by national health or safety authorities.

### 3 **References**

For the technical requirements captured in this Specification, reference has been made to the following documents:

ITU-R M.1343-1      Essential technical requirements of mobile earth stations for global non-geostationary mobile-satellite service systems in the bands 1-3 GHz

IDA TS CMT      Technical Specification for Cellular Mobile Terminal

Page	TS Ref.	Items Changed	Effective Date
<b>Changes to IDA TS GMPCS Issue 1 Rev 3</b>			
3,4	2.1.2, 3	Editorial changes – References to IDA TS GSM-MT and IDA TS 3G-MT were changed to IDA TS CMT	11 Aug 11
<b>Changes to IDA TS GMPCS Issue 1 Rev 2</b>			
		Change of IDA's address at cover page to Mapletree Business City.	1 May 11
<b>Changes to IDA TS GMPCS Issue 1 Rev 1</b>			
–	–	Title of Specification has been renamed as "Technical Specification for Global Mobile Personal Communication Satellite (GMPCS) Terminals" [IDA TS GMPCS Issue 1 Rev 2]. Changes are mainly editorial in nature. The essential technical requirements for conformity assessment remain unchanged.	21 Jul 05