



Technical Specification

for

Global Mobile Personal Communication Satellite (GMPCS) Terminals

IDA TS GMPCS
Issue 1, Rev 2, July 2005

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<p style="text-align: center;">NOTICE</p>
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<p style="text-align: center;">This Specification is subject to review and revision.</p>

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.5
- 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 GSM-MT and/or IDA TS 3G-MT.

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:

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|----------------|--|
| 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 GSM-MT | Technical Specification for GSM Mobile Terminal |
| IDA TS 3G-MT | Technical Specification for IMT-2000 Third-Generation (3G) Cellular Mobile Terminal |

Changes to IDA TS GMPCS Issue 1 Rev 1			
Page	TS Ref.	Items Changed	Effective Date
—	—	<p>Title of Specification has been renamed as “Technical Specification for Global Mobile Personal Communication Satellite (GMPCS) Terminals” [IDA TS GMPCS Issue 1 Rev 2].</p> <p>Changes are mainly editorial in nature. The essential technical requirements for conformity assessment remain unchanged.</p>	21 Jul 05