Product Fact Sheet

A600 Parabolic Manpack SATCOM Terminal



Flexible SATCOM Terminal

Overview

The A600 Parabolic Manpack SATCOM Terminal is a highly flexible SATCOM terminal suited for operations in harsh environments. Equipped with a high performance parabolic antenna and designed for Tri-band operations across Ku and Ka Bands, the terminal is capable of accessing a variety of networks with its modular RF design and ability to support a range of modem platforms.

Highly portable and lightweight for its class, the terminal is quick and easy for operators to deploy with a full assisted pointing capability. Designed to MIL-STD810G, it is suited for deployments under robust conditions and remains highly reliable.

Terminals are available in Standalone and Integrated configurations, fully equipped with a modular RF payload and supports a range of integrated modems. This enhances operational flexibility by allowing the terminal to operate under different networks with a common antenna hardware, thus maximizing commonality in hardware for ease of maintenance.

Key Features

- High performance parabolic antenna
- Quick to setup in under 3min
- Intuitive assisted pointing interface
- Multi-mission with modular RF Payload
- Integrated modem

Key Applications

- Tactical Communications
- Reconnaissance Operations
- Humanitarian Aid and Disaster Relief

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Technical Specifications

General Specification		
Configuration	Manpack terminal (Flyaway) Manual	
Antenna Size	0.6 meter	
Standard Regulation	ITU	
Operating Band	Ka-Band	Ku-Band
Frequency	27.5 to 31 GHz (Tx) 17.7 to 21.2 GHz (Rx)	13.75 to 14.5 GHz (Tx) 10.7 to 12.75 GHz (Rx)
Gain	42.9 @ 30 GHz (Tx) 39.4 @ 20 GHz (Rx)	36.6 @ 14.5 GHz (Tx) 35.3 @ 12.5 GHz (Rx)
Typical System G/T @20deg	15.0 dB/K min.	13.5 dB/K min.
Feed and Polarization	2-port Circular	2-port Linear
Cross Pol / Axial Ratio	1.5 dB	35 dB
EIRP Capability	50dBW min (10W)	44dBW min (6W)

Mechanical Specification	
Carry Case	2 Field Bag
Travel Range Azimuth | Elevation | Polarization	±180° | 0° ~ 90° | 180°
Weight	19kg

Integrated Modem	
Integrated Modem	iDirect 950MP | iQ200 | SMB3315

Electrical Specification	
System Voltage / Frequency	48 VDC
Power Consumption	<150W

Environmental Specification	
Operational Temperature	-20°C to 55°C
Humidity	95%
Protection	IP65
Wind Loading Operational	< 13m/s with ballast
Wind Loading Survival	< 18m/s with ballast

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