

Starlight A600 Manpack Terminal



Flexible SATCOM Terminal

Starlight A600 Manpack 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, Ka and X 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. It is a perfect fit for the Defence market for applications such as tactical communications, reconnaissance and critical communications support, and extends well to support first responders and for humanitarian and disaster relief operations.

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

Technical Specifications

General Specifications			
Configuration	Manpack terminal (Flyaway) Manual		
Antenna Size	0.6m		
Standard Regulation	ITU		
RF Specifications			
Operating Band	Ka-Band	Ku-Band	X-Band
Frequency	29 to 31 GHz (Tx) 19.2 to 20.2 GHz (Rx)	13.75 to 14.5 GHz (Tx) 10.7 to 12.75 GHz (Rx)	7.9 to 8.4 GHz (Tx) 7.25 to 7.75 GHz (Rx)
Gain	43 @ 30 GHz (Tx) 39.1 @ 20.2 GHz (Rx)	36.4 @ 14.5 GHz (Tx) 35.1 @ 12.5 GHz (Rx)	31.6 @ 8.15 GHz (Tx) 31 @ 7.5 GHz (Rx)
Typical System G/T @20deg	15.4 dB/K min.	13.5 dB/K min.	9.6 dB/K min.
Feed and Polarisation	2-port Circular	2-port Linear	2-port Circular
Cross Pol / Axial Ratio	1.5 dB	35 dB	1 dB
EIRP Capability	50.2dBW min (12W)	44dBW min (16W)	44.5dBW min (20W)
Mechanical Specifications			
Carry Case	1 Field Bag (option for single carry case)		
Travel Range			
Azimuth Elevation Polarization	360° 0° ~ 90° 180°		
Weight	16kg		
Integrated Modem (Option)			
Modem	iDirect 950MP iQ200		
Electrical Specifications			
System Voltage / Frequency	24-48 VDC		
Power Consumption	<150W		
Environmental Specifications			
Operational Temperature	-20°C to 55°C		
Humidity	100%		
Protection	IP65		
Wind Loading Operational	< 13m/s with ballast		
Wind Loading Survival	< 18m/s with ballast		