

MAN-PORTABLE VSAT TERMINAL (Parabolic)



Whether the need is combat support, intelligence, executive travel, special missions or homeland security, the Panther™ VSAT from L-3 GCS provides high-speed data communications for Internet, VPN connectivity and video transmission. This highly rugged VSAT manpack is light-weight, highly portable and offers simplistic pointing, fine-tune adjustments and control capabilities via visual indicators on the front panel and an embedded, web-based GUI. This allows for easy, accurate, and quick acquisition without bulky motors, drive systems or complex test equipment.

The Panther™ VSAT is available in three frequency bands; X-, Ku- and Ka-. A complete single band system is designed to be packed/carried in a 'rucksack' or airline checkable case. Optional ancillary RF kits are available to allow the user to quickly change from band to band without the need for an additional terminal. The Panther™ provides up to 3 Mbps (transmit) and up to 6 Mbps (receive) data rates.

The standard Panther™ manpack terminal is offered with an embedded iDirect Evolution iConnex e850mp modem with DVB-S2 receive capability and TDMA return channel. The modem incorporates Adaptive Code Modulation (ACM), which allows for high data throughput and flexibility in disadvantaged satellite coverage areas.

The high gain of the antenna enables the terminal to be used in less than optimal locations within the satellite footprint. Ethernet data interfaces are provided for connection of various data, voice and video devices using an Everything Over IP (EoIP) approach.

FEATURES

- Fully integrated, light-weight, rugged manpack design
- Interchangeable Feed and RFE design allows for easy RF Band change
- Azimuth and elevation fine tune adjustments
- No Fans - passively cooled
- Supports the iDirect Keyline feature
- iDirect Evolution series modem capable of DVB-S2
- Comtech DMD1050 modem option
- Field connectivity over CAT-5 cable
- Integrated web-based GUI and front panel user interface
- Co-Pol option (Ku-Band)

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MECHANICAL	
Standard Case Dimensions	25.5 L x 19.5 W x 15.9 H inches 64.8 L x 49.5 W x 40 H centimeters
Weight	System: less than 43 lb. (19.5 kg)* System and Case: less than 65 lb. (29.5 kg) *includes outriggers, battery box, AC/DC power supply, and cables
INTERFACES	
Modem Support	iDirect e850MP Comtech DMD1050 option
Ports	(2) RJ45 100baseT Ethernet ports
POWER	
90-264 VAC, 50/60 Hz 18-48 VDC - Battery box for use with (2) BB-390B/U batteries - Optional DC-DC power supply for operation on 12-48 VDC	
ELECTRICAL/PERFORMANCE	
Band Support	X-, Ku-, Ka-
Antenna	24 inches (.60m) parabolic, center fed 8pc. reflector
Sidelobes	Per ITU-R S.524-8, ITU-R S.728-1, FCC 25.222 (Ku-) per MIL-STD 188-164A (X-, Ka-)
Polarization	- Horizontal or vertical cross pol configurable (Ku-) - Circular (X- and Ka-)
G/T	@ 20° elevation X- = 10.8 dB/K Ku- = 14.9 dB/K Ka- = 17.1 dB/K
EIRP (Linear)	X- = 41.9 dBw Ku- = 47.7 dBw Ka- = 49.2 dBw
ENVIRONMENTAL	
Wind loading	25 mph (40 km/h) 40 mph (64.5 km/h) with anchors
Operating Temp.	-32 °C to +50 °C - operating
Certification of production units	- MIL-STD 810G - ARSTRAT certified X- and Ka-Band units



System:

PART NUMBER	DESCRIPTION
GCS-3105eXP-01*	Panther, iDirect, X-Band
GCS-3105eKP-01*	Panther, iDirect, Ku-Band
GCS-3105eAP-01*	Panther, iDirect, Ka-Band

Optional Band Kits:

PART NUMBER	DESCRIPTION
3105K-RK-01*	Panther, Ku-Band kit
3105X-RK-01*	Panther, X-Band kit
3105A-RK-01*	Panther, Ka-Band kit

* = (W) White, (T) Tan

GCS

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