GCS PANTHER

L3

.96M MAN-PORTABLE VSAT TERMINAL

Whether the need is combat support, intelligence, executive travel, special missions or homeland security, the Panther™ VSAT terminal from L-3 GCS provides high-speed data communications for Internet, VPN connectivity and video transmission. This highly rugged VSAT manpack terminal is light weight, highly portable and offers Inmarsat BGAN-like simplicity, but with significantly high data rates over commercial and military satellites.

The complete terminal is packed into two rugged, airline checkable cases. The smallest, most rugged VSAT terminal of its type, the .96M Panther™ provides up to 6 Mbps (transmit) and up to 45 Mbps (receive) data rates.

The standard 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 Panther™ integrates an elegant, but simple manual antenna pointing method using intuitive visual indicators. This allows for easy, accurate, and quick acquisition without bulky motors, drive systems or complex test equipment.

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. Control is via a simple, embedded web-based GUI.

FEATURES

- Fully integrated, light weight, rugged design
- Azimuth and elevation fine tune adjustments
- No Fans - passively cooled
- Supports the iDirect Keyline feature

- iDirect Evolution series modem capable of DVB-S2
- Field connectivity over CAT-5 cable eliminates heavy IFL cables
- Integrated web-based GUI and front panel user interface
- Co-Pol option

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MECHANICAL	
Case Dimensions & Weight	• 2 cases • Case dimensions = 22" (L) x 18'' (W) x 10" (H) inches • Packed weight ≤ 45 lb. per case Note: Weight includes outriggers, battery box, AC/DC power supply, and cables

INTERFACES	
Modem Support	iDirect e850MP
Ports	(2) RJ45 100baseT Ethernet ports

POWER
• 90-264VAC, 50/60 Hz • 18-48VDC • Optional 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	Ku-
Antenna	37 inches (.96m) parabolic, center fed 8pc. reflector
Sidelobes	Per ITU-R S.524-8, ITU-R S.728-1, FCC 25.222 (Ku-)
Polarization	Horizontal or vertical cross pol configurable (Ku-)
G/T	Ku- = 18.2 dB/K @ 20° elevation (mid Band)
EIRP (Linear)	Ku- = 51.7 dBw (mid Band)

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

PART NUMBER	DESCRIPTION
GCS-3105eKP-02*	Parabolic Panther, iDirect, Ku-Band

* = (W) White, (T) Tan, (G) Green

Rev. C

GCS