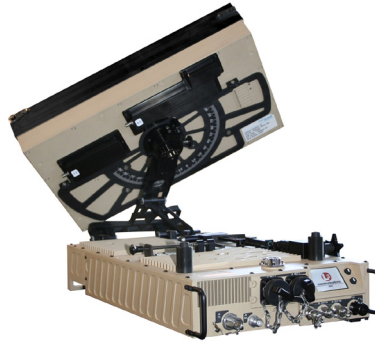


Global Communications Solutions (GCS)

PANTHER™

KU-BAND VSAT TERMINAL



Whether the need is combat support, intelligence, executive travel, special missions or homeland security, the Panther™ Ku-Band VSAT Terminal from L-3 GCS provides high-speed data communications for Internet, VPN connectivity, video transmission, surveillance, or reconnaissance. This highly rugged VSAT manpack type terminal is lightweight, highly portable, and offers Inmarsat BGAN™-like simplicity for pointing and operation at significantly higher data rate transmission speeds over Ku-band satellites.

The complete terminal is designed to be carried in a 'rucksack' or airline carry-aboard case. The smallest, most rugged VSAT terminal of its type, the Panther™ provides up to 512 kbps data rates for transmit and multi-Mbps for receive. The custom flat panel antenna design provides the operational simplicity of commercial satellite services (e.g. Inmarsat) while providing significantly higher throughput and lower operational cost.

The standard Manpack terminal is offered with an embedded iDirect modem with DVB-S2 receive capability and TDMA return channel. The Ku-Band modem incorporates Adaptive Code Modification (ACM); this allows for high data throughput and flexibility in disadvantaged satellite coverage areas. The L-3 GCS Manpack terminal integrates an elegant but simple manual antenna pointing method using intuitive visual indicators. This allows for easy and accurate acquisition without bulky motors, drive systems, or complex test equipment.

The high gain of the flat panel antenna enables the terminal to be used in less than optimal locations of the satellite footprint. Also, the antenna is optimized to provide superior sidelobe performance, mitigating interference to and from the terminal.

Ethernet data interfaces are provided for connection of various data, voice and video devices using an Everything Over IP (EOIP) approach. Control is via simple embedded GUI through a web browser.

Features:

- Fully integrated light weight rugged manpack design
- Full Ku-band coverage
- High-performance flat panel antenna
- Up to 512 kbps data rate on transmit and multi-Mbps on receive
- iDirect Evolution series modem capable of DVB-S2
- Field connectivity over CAT-5 cable eliminates heavy IFL cables
- Rucksack or airline carry aboard case
- 24 VDC with MIL batteries or AC power
- As simple to point as an Inmarsat BGAN™ terminal



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SPECIFICATIONS:

Type:	10"x15" flat panel
Frequency range (Tx):	13.75 to 14.50 GHz
Frequency range (Rx):	10.95 - 12.75 GHz (no LNB change required)
Polarization:	Horizontal or Vertical Cross Pol configurable
EIRP:	40.6 dBw
Typical G/T midband:	7.5 dB/K (at 20° elevation)
Sidelobes:	per ITU-R S.524-8, ITU-R S.728-1, FCC 25.222
IF Interface:	950-1700 MHz (available on TNC connectors for external modems)
Modem:	Embedded iDirect Evolution modem
Data Rate:	Designed to transmit up to 512kbps over Ku satellite; multi-mbps receive.
Interface:	(2) 100 Base-T Ethernet port (RJ-45)
Power:	24 VDC external supplied or BA-5590B/U battery box assembly 90-260 VAC
Wind:	25 mph operational, 40 mph with anchors
Weight:	33 lbs.*
Size:	20" L x 11.01" W x 8.26" H



STOWED POSITION

Rugged Case:

Size:	24.6" L x 19.7" W x 14.4" H
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Environmental:

Temperature	-30°C to +50°C
Humidity:	MIL-STD-810F
Vibration:	MIL-STD-810F
Shock:	MIL-STD-810F
Sand/Dust:	MIL-STD-810F
Salt Fog:	MIL-STD-810F
Blowing Rain:	MIL-STD-810F



REAR PANEL VIEW

Ordering Information: Part#: GCS-3103iK-01



communications
GCS

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SATCOM Group

* Does not include case weight

Data contained within this document is summary in nature and subject to change at any time at L-3 Communications' discretion.

L-3. Headquartered in New York City, is a prime contractor in aircraft modernization and maintenance, C3ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.

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8/18/10