

# Global Communications Solutions (GCS)

## PANTHER™

### X-BAND 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, 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 XTAR, SKYNET, and WGS satellites.

The complete terminal is designed to be carried in a 'rucksack' or rugged carry case. The smallest, most rugged VSAT terminal of its type, the Panther™ provides 1-4 Mbps data rates for transmit, depending on satellite beam, 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 Panther™ terminal is offered with an embedded iDirect Evolution series or Hughes modem capable of DVB-S2 receive capability and TDMA return channel. The L-3 GCS Panther™ terminal integrates an elegant but simple manual antenna pointing method using intuitive visual indicators. This allows for easy and accurate acquisition without the complexity and weight of an automated drive system.

The high gain of the dual flat panel antenna enables the antenna to be used in less than optimal locations of the satellite footprint. Also, the antenna is configurable to provide superior sidelobe performance compared to small parabolic antennas, mitigating the potential for 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 GUI, accessible through common browser applications.

#### **Features:**

- Fully integrated, light weight rugged manpack design
- X-band over XTAR-EUR, XTAR-LANT, SKYNET, or WGS satellites
- High-performance flat panel antenna
- 1-4 Mbps data rate on transmit, depending on satellite beam, and multi-Mbps on receive
- iDirect Evolution series or Hughes DVB-S2/ACM modem
- Field connectivity over CAT-5 cable eliminates heavy IFL cables
- 24 VDC with MIL batteries (AC power, 120/240 VAC, 50/60 Hz)
- As simple to point as an Inmarsat BGAN™ terminal



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#### **SPECIFICATIONS:**

Type:	20"x 15" flat panel (folds in half)
Frequency range (Tx):	7.9 - 8.4 GHz
Frequency range (Rx):	7.25 - 7.75 GHz
Polarization:	RHCP or LHCP configurable
EIRP:	40.5 dBw min.
Typical G/T midband:	7.5 dB/K (at 20° elevation)
Sidelobes:	per MIL-STD-188-164A
IF Interface:	950-1450 MHz (available on TNC connectors for external modems)
Modem:	Embedded Hughes or iDirect Evolution
Data Rate:	Designed to transmit 1-4 Mbps rate using XTAR-EUR, XTAR-LANT, SKYNET, or WGS satellites; multiple Mbps Receive depending on beam
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:	40.3 lbs.*
Size:	21" L x 11"W x 8.125"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

Ordering Information:	Part#: GCS-3103iX-02 (iDirect modem) GCS-3103HX-02 (Hughes modem)
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#### **GCS**

7640 Omnitech Place

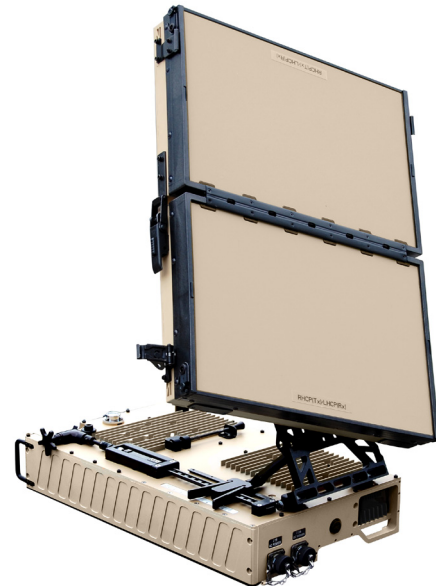
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\*Does not include case weight



REAR PANEL VIEW



communications

GCS