HORNET65 Flyaway Terminal
65cm Ka-Band Inmarsat Global Xpress Terminal

The HORNET65 is a compact-sized mobile Global Xpress Certified solution supplied with the Outdoor Paradigm Interface Module (PIM™). Combining both optimal performance and functionality, the HORNET65 is enabled to provide access to the most advanced IP satellite services. The terminal is designed to provide the best possible performance on the Global Xpress network.

Terminal Overview

The HORNET65 terminal is lightweight, rugged and quick to deploy and stow. The design is simple and robust for fast operation in demanding environments. The dual-offset antenna provides maximum efficiency and optimum radiation characteristics for improved data throughput and availability. It employs a 4-piece segmented, carbon fibre reflector that deploys quickly and accurately without the need for tools.

The integrated Ka-Band transceiver houses a BUC, PLL LNB and all associated waveguide components in a sealed compact unit which requires no cooling fans. Pointing the antenna is a very simple operation using the Outdoor PIM's integrated pointing aid or the web interface pointing page, both of which provide visual and audio feedback. The Outdoor PIM is pre-tuned to the Inmarsat Global Signalling Channel which prevents accidental pointing to adjacent satellites and includes a One Touch Calibration function.

The tripod is manufactured from aluminium with adjustable legs which provide a low profile and a wide operational footprint. The interface to the antenna is by way of a quick-release catch.

The terminal, Outdoor PIM, tripod and all cabling are supplied in a custom-built pelicase.

Features
- **65cm Antenna with Feed**
- **Integrated El/Az Antenna Mount**
- **5W Transceiver**
- **Sealed RF Chain, PIM-Enabled**
- **Outdoor PIM (includes Integrated Modem and Pointing Aid)**
- **Compact, Rugged and Lightweight**
- **Fast Deploy and Stow**
- **Tool-Free Operation**
- **All Passive Cooling for Improved Reliability**
- **Assembly Guide and Operators Manual**
- **Customised Versions Available**

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APPROVED
GLOBAL XPRESS
MANUFACTURER

HORNET65

HORNET65	
Reflector	65cm Four Piece, Carbon Fibre
EIRP	50.5 dBW @ 30.0GHz
G/T	17.0 dB/K @ 20.2GHz, 30°El, clear skies
Weight	19.2kg (excluding case)
Mount Geometry	Elevation over Azimuth

Environmental

Temperature (Operational)	-25° to +55°C
Temperature (Storage)	-40° to +85°C
Operating Humidity	0 to 95%
Salt Environment	750 hours per ASTM B-117
Vibration (Survival)	ETSI 300 019, Class 4.1E
Shock (Survival)	ETSI 300 019, Class 4.1E

Performance

Frequency Range (GHz)	GX Compliant
AC Input Voltage	90-264 VAC, 47-63Hz
DC Input Voltage	18-36VDC*
Power Consumption (AC)	< 100W
Power Consumption (DC)*	< 90W
Ingress Protection (Operational)	IP65
Ingress Protection (Transit)	IP66
Regulatory	
Radiation Pattern Compliance	GX Certified

Mechanical

Azimuth Adjustment	
Fine	360° Continuous; ±35° Adjustment
Elevation Adjustment	
Fine	±5° to 90° Continuous
Polarisation	RHCP/LHCP, Manual Change
Customer Facing Ports	
Modem Console	RJ45 (RS232 Serial)
PIM Management	RJ45 (Ethernet IP)
Network	3 x RJ45 (Ethernet IP)
AC Power	Mil-Spec 3-pin, 90-264VAC 47-63Hz, 250W max
DC Power Output or Input	Mil-Spec 6-pin,18-36VDC, 250W max*

* - With optional DC supply

Inmarsat Partner for Global Xpress Terminal Manufacturing and Integration

Paradigm is an approved **Inmarsat Global Xpress Terminal Manufacturer**, providing fixed and transportable land terminals in a range of antenna apertures up to 1.8m for commercial and government markets. Paradigm is also an approved **Inmarsat Global Xpress Terminal Integrator**, delivering complex value-added services to meet customers' demands for global coverage, seamless mobility and affordable high-speed broadband connectivity.

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