

EXPLORER 5075GX

0.75m, Auto-Acquire Fly-Away Antenna System for Inmarsat Global Xpress®

COBHAM

October 2014 Product Sheet

The most important thing we build is trust



EXPLORER 5075GX

This Cobham EXPLORER auto-acquire fly-away system is lightweight, rugged and highly portable, configured specifically for operation on the Inmarsat Global Xpress® (GX) ka-band network. The terminal includes a fully integrated iDirect Core Module. Their user friendly design allows operators with little satellite experience to access GX services within minutes.

System Features

- Easy to set up and use
- 4-Piece Resin Fiber Composite Reflector
- 75cm Axis-Symmetric Reflector
- IPX5-compliant Baseband Packaging
- WLAN Access Point and LAN interface
- LCD Display and Web-Based User Interface
- 2 Case Solution, Airline Checkable

Assembly Time Approximately 10 Minutes (typical)

Reflector

Size	75 cm
Optics	Axis-Symmetric
Construction	4-piece segmented

Markets

- Military
- Homeland Security
- Emergency Response
- Law Enforcement
- Media: Live Streaming Video, TV Broadcasting
- Telemedicine: Critical Medical Information Transmission
- Mobile Insurance Claims & Settlements
- Remote Office Communications
- Energy and Mining

Applications

- Continuity of Business Operations
- Remote Business Videoconferencing
- Internet Cloud Services: Voice, Radio, Data, Fax, Live Broadcast

Mechanical

Axis Drive System	2-Axis Positioner
Mount Geometry	Elevation over Azimuth
Travel Azimuth Elevation	180° or ± 90° from stow position 0° to 90°

Weights & Measures (approximate)

Terminal	28.6 kg (63 lbs)
Packaging (2 cases)	Airline checkable
Base unit case (L/W/D)	57.1 / 536 / 289 mm 22.5 / 21.1 / 11.4 inches
Weight	31.1 kg / 68.5 lbs
Reflector + feed case (L/W/D)	57.1 / 536 / 289 mm 22.5 / 21.1 / 11.4 inches
Weight	20.2 kg / 44.5 lbs

Power Requirement

90 - 260 VAC 150W (max)

Subject to change without further notice.

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Antenna Characteristics		
Feed		2 Port Circular
Frequency (GHz)	Rx	19.2 - 20.2
	Tx	29 - 30
Gain (dBi ± 0.2)	Rx	41.0
	Tx	44.5
Axial Ratio (AR) (dB)	Rx	≤ 1.5
	Tx	≤ 1.0
Polarization	Rx	LHCP
	Tx	RHCP
G/T - Comm @ 30° EL, Midband (dB/K)		17.3
EIRP @ Midband (dBW)		51.5
BUC power (P linear) (Watts)		5

Environmental

Wind Speed	- Operational	48 km/h (30 mph) gusts up to 72 km/h (45 mph) (anchored)
Temperature	- Operational	-25° to +55°C (-13° to +131°F)
	- Survival	-40° to +80°C (-40° to +176°F)
Rain		<100 mm/hr
Humidity		0 to 100% (condensing)

User Interface

Embedded web server for configuration, control and management using external PC.



About EXPLORER Products

SATCOM Land offers a diverse array of turn-key satellite terminals that fulfill critical communications needs and reduce system configuration requirements for end users. The solutions we provide offer a wide variety of data rates in multiple frequency bands including L, Ku, Ka, and X-bands. Systems are available as manual, or auto-acquire configuration, and are organized in drive-away, fly-away and comm-on-the-move (COTM) families. When traditional communication technologies are unavailable or fail, our products provide high quality VoIP, RoIP, FAX, data, and multimedia communications that work efficiently across satellite links. We specialize in assisting partners with integrated end-to-end solutions for rapid deployment to support disaster recovery, continuity of operations and other mission critical applications.

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