

EXPLORER 6075LX

COBHAM

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

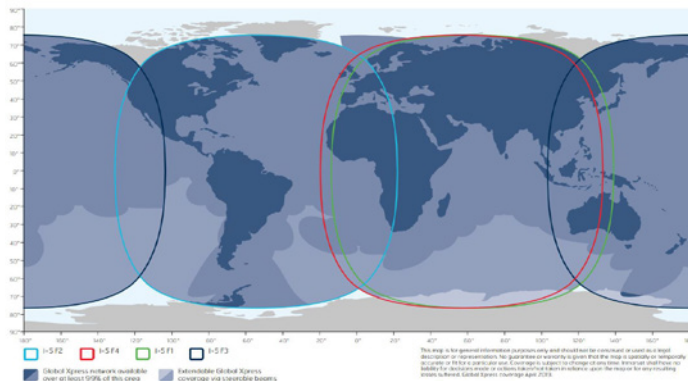
April 2020 Product Sheet



System Features

- Fast deployable, easy to set up and use
- Dynamic Pointing Correction technology
- 0.75m 4-Piece Carbon Reflector
- Replaceable Ka-Band Feed Horn
- IP65 rated
- WLAN Access Point and LAN interface
- LCD Display and Web-based User Interface for Easy PC and Smartphone Configuration
- 2 Case Solution, Airline Checkable (<23 kg)

Inmarsat Global Xpress® coverage



Subject to change without further notice

Introducing EXPLORER 6075LX

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

Online with the push of a button

EXPLORER 6075LX features an auto-acquire system that ensures connectivity to LX services with the push of a button. It's that simple. No pointing is needed with EXPLORER 6075LX - it automatically finds the satellite in the matter of minutes, providing quick access and broadband connectivity, even in remote locations.

Dynamic Pointing Correction

EXPLORER 6075LX is the first ever Fly-Away to feature Cobham's unique Dynamic Pointing Correction technology, which provides you with uninterrupted connectivity. In the field, Dynamic Pointing Correction ensures that the antenna stays locked on to the satellite, even in strong wind or if moved. Proven on land with the EXPLORER 8000 Series, our Dynamic Pointing Correction sets the EXPLORER 6075LX apart from other Fly-Away antennas.

Reliable EXPLORER

EXPLORER 6075LX is developed completely in-house by Cobham SATCOM. It features genuine and robust EXPLORER design, which is already established and proven with Cobham SATCOM's highly regarded EXPLORER L-Band and VSAT terminals.

Global coverage

Inmarsat Global Xpress® is a speed Ka-band network spanning the world. Regardless of the application, our suite of EXPLORER LX terminals will provide the reliability and functionality required to fast and effectively connect users to the Global Xpress® network.



Related Products: EXPLORER 6100 Ku, EXPLORER 3075GX

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EXPLORER 6075LX



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

Antenna Characteristics		
Feed		2 Port Circular
Frequency (GHz)	Rx	19.2 - 20.2
	Tx	29 - 30
Gain (dBi ± 0.2)	Rx	41.5
	Tx	45
Axial Ratio (AR) (dB) w	Rx	≤ 1.5
	Tx	≤ 1.0
Polarization	Rx	LHCP
	Tx	RHCP
G/T - Comm @ 30° EL, Midband (dB/°K)		18.7
EIRP @ Midband (dBW)		52
BUC power (P linear) (Watts)		5

Environmental		
Wind Speed	- Operational	50 km/h / 31 mph (anchored)
	- Survival	160 km/h / 100 mph (anchored)
Temperature	- Operational	-33° to +55°C (-27.4° to +131°F)
	- Survival	-40° to +80°C (-40° to +176°F)
Water & Dust	IP 65 rated	
Humidity	0 to 100% (condensing)	

Assembly Time	Approximately 5 Minutes
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Reflector	
Size	0.75 m
Optics	Axis-Symmetric
Construction	4-Piece Segmented Carbon Fiber



Mechanical		
Axis Drive System	2-Axis Positioner	
Mount Geometry	Elevation over Azimuth	
Travel	- Azimuth	± 95° from stow position
	- Elevation	0° to 88°

Electrical		
RF	Rx	Type TNC (50-Ohm)
	Tx	Type N (50-Ohm)
Nominal Power Consumption		130W
Max. Power Consumption		180W
Power Requirement		
- Nominal		24 - 48 VDC
- Absolute max. rating		19 - 56 VDC

Weights & Measures (approximate)	
System weight (assembled)	23 kg / 50.7 lbs
Packaging (2 Peli 1637 Air Cases)	Airline checkable
- Case size (L/W/D)	67.6 / 52.5 / 37.8 cm 26.6 / 20.7 / 14.9 inches
Weight in transport cases:	
- Case 1: Base Unit	22.5 kg / 49.6 lbs (TBD)
- Case 2: RF Package, 4 reflector panels	19 kg / 41.9 lbs (TBD)

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

Product number
406616C-50114 EXPLORER 6075LX

Accessories	
403160P	EXPLORER 6000 Power Supply - 48 VDC (320 Watt)
403160P-010	EXPLORER 6000 Power Supply Extension cable - 10m extension cable with Neutrik connectors
406616C-070	EXPLORER 6000 Series Ka-band Feed Horn - Field replaceable Feed Horn for Ka-band - Used in EXPLORER 6075LX

	+1 919 850 3100 satserv@mackaycomm.com Satellite PTT, Voice & Data Equipment and Airtime
	www.mackaycomm.com

For further information please contact:

Cobham SATCOM Land
 Lundtoftegaardsvej 93 D
 DK-2800 Kgs. Lyngby, Denmark
 Tel: +45 3955 8800

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Related Products: EXPLORER 6100, EXPLORER 3075GX

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