

# EXPLORER 6075LX

## 0.75m Stabilized Auto-Acquire Fly-Away Antenna System



### 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 VSAT antennas.

## 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)

## 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):**

-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

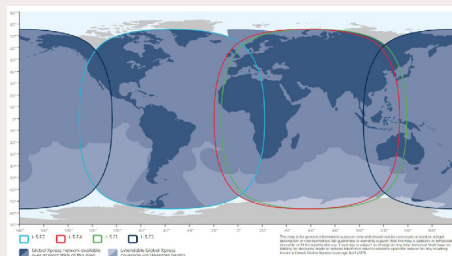
**BUC power (P linear) (Watts):** 5

### 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.



## MECHANICAL

**Axis Drive System:** 2-Axis Positioner

**Mount Geometry:** Elevation over Azimuth

**Travel:**

-Azimuth: ± 95° from stow position

-Elevation: 0° to 88°

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### 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

### 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

### USER INTERFACE

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

### 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: 22.4 kg / 49.4 lbs

- Case 2: RF Package, 4 reflector panels: 17.3 kg / 38.1 lbs

### REFLECTOR

**Size:** 0.75 m

**Optics:** Axis-Symmetric

**Construction:** 4-Piece Segmented Carbon Fiber

### 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

**406627A-005:** EXPLORER 6000 Series Manual Jog Tool

- Jog Tool for EXPLORER 6075LX / 6100 Ku

- Works for Elevation and Azimuth

