

EXPLORER 7100GX

1.0m Vehicle Mount Auto-Acquire Antenna System for Inmarsat Global Xpress®

COBHAM

January 2016 Product Sheet

The most important thing we build is trust



EXPLORER 7100GX

The EXPLORER 7100GX from Cobham enables users to access the Inmarsat Global Xpress® ka-band network. This auto-acquire, drive-away antenna system allows personnel with little satellite experience to easily configure and operate this terminal enabling the user to access any broadband application over satellite.

Life-long performance

EXPLORER 7100 provides reliable, hassle-free operation with the minimum amount of regular maintenance. This is achieved through the use of an industry-leading, zero-backlash Az/EI cable drive and precision polarisation drive, which, combined with Cobham's commitment to high quality manufacturing, results in high reliability.

Precise auto-deploy system

The EXPLORER 7100GX antenna ensures the simplicity and convenience of one-touch control for hassle-free configuration and superior portability. The controller has built-in RF Tuner, Compass, GPS, GLONASS and inclined orbit satellite tracking for precise and convenient drive-away VSAT operations.

EXPLORER 7100GX's satellite auto-acquisition can easily be configured and remotely monitored via the user-friendly, graphical user interface (GUI) on a standard web browser - no need for a separate display.

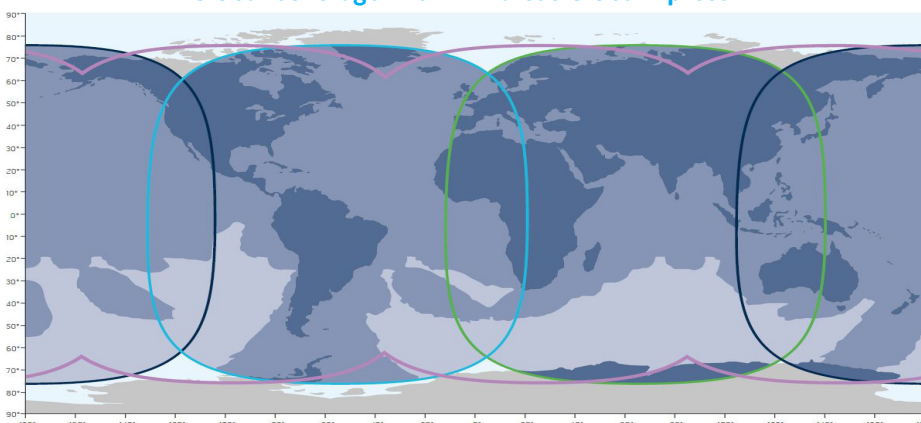
Low-cost, low-profile

The compact, affordable, low-profile EXPLORER 7100GX motorised antenna can be swiftly mounted onto virtually any vehicle for convenience and adaptability. The system features a versatile mounting pallet with an optional roof rack or rail interface for easy installation on a variety of smaller vehicles including SUVs and vans.

System Features

- Compact auto-deploy, drive-away system
- 1.0m composite resin/fiber offset reflector
- Extremely Low Backlash Cable Drive System
- Ka Band feed chain with 5W BUC
- Integrated Inmarsat GX® Core Module

Global coverage with Inmarsat Global Xpress®



Cobham SATCOM is an official launch partner for the new Inmarsat Global Xpress® Ka-band network. Inmarsat Global Xpress is the first high-speed broadband network to span the world. Regardless of the application, our suite of EXPLORER GX terminals will provide the reliability and functionality required to fast and effectively connect users to the Global Xpress® network.

Subject to change without further notice.

Related Products: EXPLORER 7120, 7180, 3075GX, 5075GX

www.cobham.com/satcom

EXPLORER 7100GX

1.0m Vehicle Mount Antenna System for Inmarsat Global Xpress® Operation



RF Characteristics	Ka-Band	
	Rx	Tx
Frequency (GHz)	19.2 - 20.2	29 - 30
EIRP @ P1dB (dBW)		54.0
Max On-Axis EIRP Spectral Density (dBW/40kHz) Per FCC 25.138		36.5
G/T (dB/K) @ 30EL with 1.5dB NF LNB (20C) (Midband)	19.9	
BUC Output Power @ P1dB (W)	5	

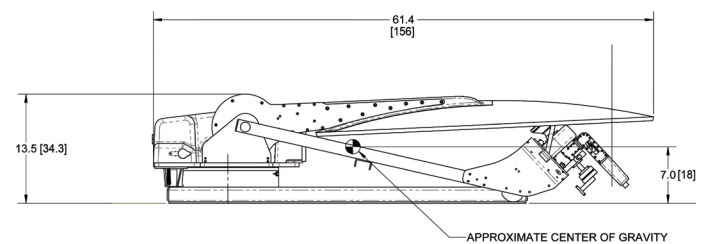
Environmental		
Wind Speed	- Operational	48 km/h (30 mph) gusts to 72 (45 mph)
	- Survival	Deployed: 128 km/h (80 mph) Stowed: 201 km/h (125 mph)
Temperature	- Operational	-30° to +51°C (-22° to 125°F)
	- Survival	-40° to +60°C (-40° to 140°F)
Rain		<100 mm/hr
Humidity		0 to 100% (condensing)

Electrical	
RF	Rx and Tx: Type F (75-ohm) connectors
Interfacility Link	30 ft (9.14M) Dual RG6 Coax, 1 Control Cable
Motors	24VDC Servo w/ Optical Encoder, Constant Torque
Controller (1U)	50/60Hz, 110/240VAC Single Phase
Power Supply	Motors Active – 250 Watts
Consumption	Motors Idle – 30 Watts
Emergency Drive	Handcrank on Az & El



Rack-mounted equipment including power supply and modem

Reflector	
Size	1.0m Resin Fiber Composite
Optics	Offset, Prime Focus, 0.8 F/D
Mount Geometry	2-Axis, Elevation over Azimuth
Polarization	Circular



Stowed Position (in inches [cm])

Mechanical	
Positioner	Cable Drive
Travel Range Azimuth	400° or ± 200°
Elevation	0-90° antenna boresight (mechanical) Standard limits at 5° to 65° (operational)

Weights & Measures (approximate)	
Approx. Weight	45 kg (100 lbs) without BUC / LNB
Approx. Length	156 cm (61.4")
Stowed Height*	34.3 cm (13.5")
Deployed Height*	152.4 cm (60") (*with loadframe)

Product number	
407162A-00500	EXPLORER 7100GX

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