

EXPLORER 7100GX

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

COBHAM

October 2014 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.

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

Reflector

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

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

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)



Rack-mounted equipment including power supply and modem

EXPLORER 7100GX

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



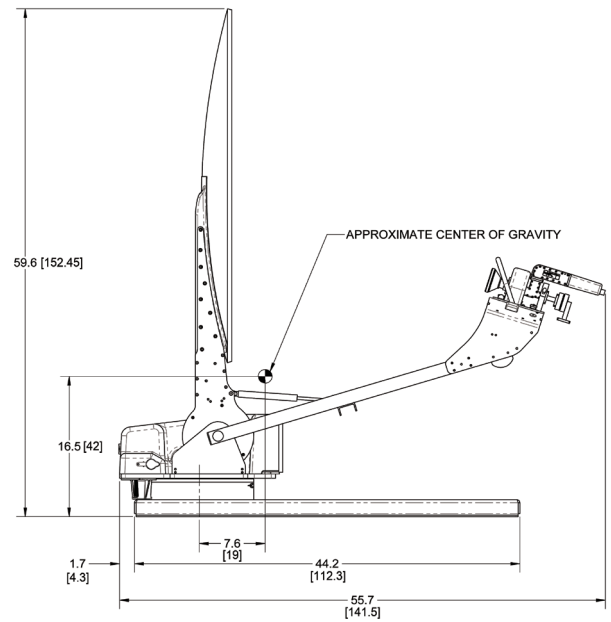
RF Characteristics	Ka-Band	
	Rx	Tx
Frequency (GHz)	19.2 - 20.2	29 - 30
EIRP @ P1dB (dBW)		54.0
Max On-Axis EIRP Spectral Density (dBW/40kHz) Per FCC 25.138		36.5
G/T (dB/K) @ 30EL with 1.5dB NF LNB (20C) (Midband)	19.9	
BUC Output Power @ P1dB (W)	5	

Environmental

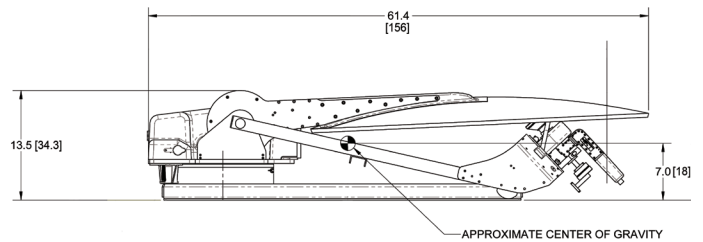
Wind Speed	- Operational	48 km/h (30 mph) gusts to 72 (45 mph)
	- Survival	Deployed: 128 km/h (80 mph) Stowed: 201 km/h (125 mph)
Temperature	- Operational	-30° to +51°C (-22° to 125° F)
	- Survival	-40° to +60°C (-40° to 140° F)
Rain		<100 mm/hr
Humidity		0 to 100% (condensing)

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	
Power	Motors Active – 250 Watts
Consumption	Motors Idle – 30 Watts
Emergency Drive	Handcrank on Az & El



Deployed Position (in inches [cm])



Stowed Position (in inches [cm])

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-deploy 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.

Subject to change without further notice.

For further information please contact:

Cobham SATCOM Land
2100 N Alafaya Trail Suite 300
Orlando, Florida 32826 USA
Tel: + 1-407-650-9054
Fax: + 1-407-650-9086