

EXPLORER 6100 Ku

1m stabilized auto-acquire fly-away antenna system for Ku-band operation.

Online With the Push of a Button

EXPLORER 6100 Ku is a lightweight, rugged and highly portable 1m Auto-Acquire Fly-Away VSAT system. Its user friendly design allows operators with little satellite experience to access ku-band satellite services within minutes. No pointing is needed with EXPLORER 6100 Ku; it automatically finds the satellite in a matter of minutes, providing quick access even in remote locations.

System Features

- 1m 7-piece carbon fiber reflector
- Advanced dynamic pointing correction technology
- IP65 rated
- WLAN access point and LAN interface
- LCD display and web-based user interface for easy PC and smartphone configuration
- Fast assembly with less than 5 minutes set up
- 2 case solution, airline checkable (3 case solution upon customer request)
- Replaceable Ku-Band feed horn
- Available in 8W BUC, 20W BUC and no BUC options

Markets

- Emergency Response
- Media: Live Streaming Video, TV Broadcasting
- Homeland Security & Defense
- Law Enforcement
- Remote Office Communications
- Telemedicine: Critical Medical Information Technology
- Energy & Mining



Uninterrupted Communication

The new addition to the EXPLORER portfolio provides you with uninterrupted connectivity services thanks to Cobham's unique Dynamic Pointing Correction technology. In the field, Dynamic Pointing Correction ensures that the antenna stays locked on to the satellite, even in strong wind or if moved. Using lessons learned from Cobham SATCOM's maritime stabilized VSAT antennas, and proven on land with the EXPLORER 8000 Series, the technology sets EXPLORER 6100 apart from other Fly-Away antennas in its class.

Reliable EXPLORER

EXPLORER 6100 Ku is developed completely in-house by Cobham SATCOM. It features genuine EXPLORER design, which is already established and proven with Cobham SATCOM's highly regarded EXPLORER BGAN and VSAT terminals. Its robust design and system versatility ensures high-quality connectivity, which means you can count on EXPLORER 6100 Ku to provide you with vital communication whatever the conditions.

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Antenna Characteristics

Feed	2 Port Linear (Rx Co- or X-pol)
Frequency	Rx: 10.7 - 12.75 Tx: 13.75 - 14.5
Gain (dBi \pm 0.2) @ Midband	Rx: 39.9 Tx: 41.6
Cross Pol Isolation (dB)	Rx: >27.5 Tx: >30
G/T - Comm @ 30° EL, Midband	19
EIRP @ Midband (dBw)	50.6 / 54.6
Standard BUC options (Watts)	No BUC / 8 / 20 Watt

Environmental

Wind Speed	Operational: 46 km/h / 28 mph (anchored) Survival: 118 km/h / 73 mph (anchored) (ETSI EN 301 360)
Temperature	Operational: -33° to +55°C / -27.4° to 131°F Survival: -40° to +80°C / -40° to 176°F
Water & Dust	IP65 rated
Humidity	0 to 100% (condensing)

Assembly Time

Approximately 5 Minutes

Reflector

Size	1.0m
Optics	Axis-Symmetric
Construction	7-Piece Segmented Carbon Fiber

Mechanical

Axis Drive System	3-Axis Positioner
Mount Geometry	Elevation over Azimuth
Travel	Azimuth: \pm 95° from stow position Elevation: 0° to 88°

Electrical

RF on Base Unit	Rx: Female Type N (50-Ohm) Tx: Female Type N (50-Ohm)
Max Terminal Power Consumption (excl. BUC)	<50W (TBD)
Max BUC Power	Via Coax 250W / 7A*: Connector Via M&C: 600W / 13A*

*Power consumption is limited by the current, i.e. max BUC power requires max input voltage of 48VDC

Weights & Measures (approximate)

Terminal	28 kg / 61.7 lbs
Packaging (2 cases)	Airline checkable
Base Unit (Peli 1637 Air Case) (L/W/D)	59.5 / 44.6 / 33.7 cm 23.4 / 17.6 / 13.3 inches
Weight	<23 kg / 50.7 lbs (TBD)
Reflector case (L/W/D)	79.5 / 51.8 / 39.4 cm 31.3 / 20.4 / 15.5 inches
Weight	<27 kg / 59.5 lbs (TBD)

Power Requirement

24-48 VDC nominal
6A (max)

User Interface

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

Product Number

406627A-50014 EXPLORER 6100 Ku (No BUC)

406627A-50214 EXPLORER 6100 Ku (8W BUC)

406627A-50314 EXPLORER 6100 Ku (20W BUC)

