

Terminal Description

The TomCat™ X-Band from Globecomm is designed for use in the tactical environment and other rapid response applications. This small, light-weight X-Band terminal sets up in less than 10 minutes. With its solid construction, it is ideally suited to withstand harsh conditions and operate in some of the most remote territories. As part of Globecomm's Explorer terminal product line, the TomCat™ X-Band is man-transportable in a single case and meets the requirements for luggage aboard commercial airlines. The user-friendly set-up includes built-in diagnostics, an integrated spectrum analyzer and monitoring via a GUI (Graphic User Interface) and laptop computer and operates on a variety of power sources.

Features:

- Small, lightweight mechanical package
- Sets up in less than 10 minutes – no tools required
- No cooling fans – Unique convection thermal design eliminates active elements
- Integrated iDirect eVolution modem
- Accommodates external modem via L-band interface
- SSPA power modules available in 5, 10 or 16 watts
- Designed to Maximize Simplified Operation through Graphical User Interface (GUI), External GPS Sensor, Antenna Pointing Display, Electronic Elevation Sensor and Status LEDs
- Fine-tune azimuth and elevation mechanical adjustment
- Sealed Feed Assembly incorporating Field-switchable polarization with locking mechanism
- Operates with multiple power sources: Auto-ranging AC or DC.
- Power management controls permit maximum runtime when operating off battery power source
- LED Blackout Switch

Optional Items:

- AC to DC Power Converter
- Internal L-band Spectrum Analyzer
- Rugged Laptop Computer (e.g. Toughbook)
- Battery Box power supply utilizing two BA-5590 batteries





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A little bit of satellite goes a long way™

SYSTEM SPECIFICATIONS

Parameter	Specification	Notes
G/T	7.0 dB/K nominal	20° elevation at 7.25 GHz
Minimum EIRP	41 dBW (1db compression)	16-watt version
Transmit to Receive Isolation	< 0.1 dB	Transmitter On, with and without carrier
Modem	iDirect eVolution (internal)	External L-band modem interface
Transmit Data Rate	1.5 Mbps (nominal)	Higher data rates possible, depending on satellite link particulars
Receive Data Rate	DVB-S2	—
Interfaces	x2 RJ45 Weather-Tight x3 TNC-Female Circular-MS Type	Ethernet Interface External Modem (Tx, Rx, 10MHz) DC Input
Indicators	Rx Signal Strength Status—Normal In-Network Tx—On Rx—Locked Main Power-On Tx-Alarm	All indicators have blackout control
AC Power	90-260 VAC, 47-440Hz Auto-ranging	Optional external AC-DC adaptor
DC Power	12VDC	BA-5590 or Military Vehicle Battery
Power Consumption	140 watts	16-watt version
Size	25" x 14" x 10" (63.5 x 35.6 x 25.4 cm)	Packed in standard transit case
Weight	35 lbs (15.9 kg)	Excludes AC-DC power supply, batteries or laptop

Specifications subject to change.

ANTENNA SPECIFICATIONS

Parameter	Specification	Notes
Transmit Frequency Range	7.9 to 8.4 GHz	—
Receive Frequency Range	7.25 to 7.75 GHz	—
Antenna	18 inch (0.45m)	Parabolic
Antenna Material	Composite, Six pieces	—
Feed	Two-port, Circular, Splash Plate	Field-Switchable for XTAR operation
Radiation Patterns	-15 db nominal	First sidelobes
Beamwidth (degrees)	Rx:0.94 Tx:0.86	3 dB 3 dB
Travel Range (Coarse)	Azimuth: 360° Elevation: 5 to 90°	Fine adjustment ±30° Fine adjustment ±30°

ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Notes
Temperature (Operational)	-20 to +50° Celsius	Method 501.4 (High Temp-hot climate) and 502.4 (Mild Cold-Procedure II)
Temperature (Storage)	40 to +70° Celsius	
Humidity	Up to 100% condensing	
Wind	Up to 35 mph gusts	
Altitude	10,000ft/3,048m (Operational) 40,000ft/12,192m (Storage)	
Sand/Dust	Method 510.4 per MIL-STD-810F	
Transportation	Method 514.5 C-2 per MIL-STD-810F	
Rain, wind blown	Method 506.4 per MIL-STD-810F	



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