

TRACKER 1300 TT

Frequency Flexibility. Platform Scalability. A Heritage of Reliability.
Any Orbit. Any Network. Anywhere.

Product Sheet

COBHAM
SATCOM
Connecting the future



The Cobham Satcom Tactical TRACKER 1.3m X-Y antenna is designed to enable a new range of services and applications, utilizing GEO, MEO and LEO satellites, combining high performance and reliability with ease of installation and use.

Designed for flexibility

With Cobham's unsurpassed pointing accuracy, the Tactical TRACKER is designed to meet RF, pointing and performance specifications for LEO/MEO/GEO networks and operators providing long term flexibility. Users can quickly switch between satellite orbits and operators. The X-Y Axis pedestal provides excellent high-speed performance for multiple applications, including rapid retrace to enable for "break before make" single antenna, single modem topology on MEO.

Compact and high performance

The Tactical TRACKER 1300 is a compact, modular, and cost-effective user terminal that provides secure, mission-critical data and control links for a growing range of defense and government applications.

Toolless assembly time is less than 30 minutes, making this system satellite acquisition ready. The servo systems provide full-motion control for continuous operation designed for high duty cycle LEO/MEO satellite tracking. The parabolic reflector is a segmented carbon fiber composite reflector with a high-performance servo control system.

Any of our antenna products including our tactical tracking antennas can be customized for your requirement.

Unique Features

- Customizable
- Using OpenAMIP v1.7 and OpenBMIP
- User-friendly assembly, operation, disassembly and pack-up
- Adjustable leveling on each leg
- Less than 30-minute total set-up & satellite acquisition
- Meets MIL-STD-1472G pack up two-man lift/carry (270lb)

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TRACKER 1300 TT
1.3-meter X-Y Tactical Antenna Ka-Band



MECHANICAL/ ENVIRONMENTAL SPECIFICATION

Reflector	1.3m Carbon Fiber
Reflector Configuration	
Antenna Travel	Torque Mode Servo
X-axis	+/-90o continuous, > 11 deg/sec
Y-axis	+/-90o continuous, > 11 deg/sec

Packaging (3 cases)

Reflector	26.5 X 26.5 X 15.6 (65 lbs)
Positioner	37.5 X 27.5 X 14.5 (90 lbs)
Pedestal /Controller Component	44.9 X 25.3 X 16.5 (115 lbs)

RF SPECIFICATIONS /ELECTRICAL

Feed	4-port Ka-band	
RF	Receive	Transmit
Frequency (GHz)	17.7 - 22.2	27.5 - 31.0
Polarization	Circular Co- and Cross-pol	
Gain (Mid-Band)	46.8	49.4
Beamwidth, Midband (3dB)	0.81	0.53
Axial Ratio	1.5	1.0
Sidelobe Compliances	ITU-580	
EIRP	49.4	
VSWR	1.35:1	1.30:1
Tx/Rx Feed Isolation	-70dB	
G/T (10deg EL, dB/K)	23.0	
G/T (20deg EL, dB/K)	23.7	
G/T (40deg EL, dB/K)	24.2	

Servo Control System

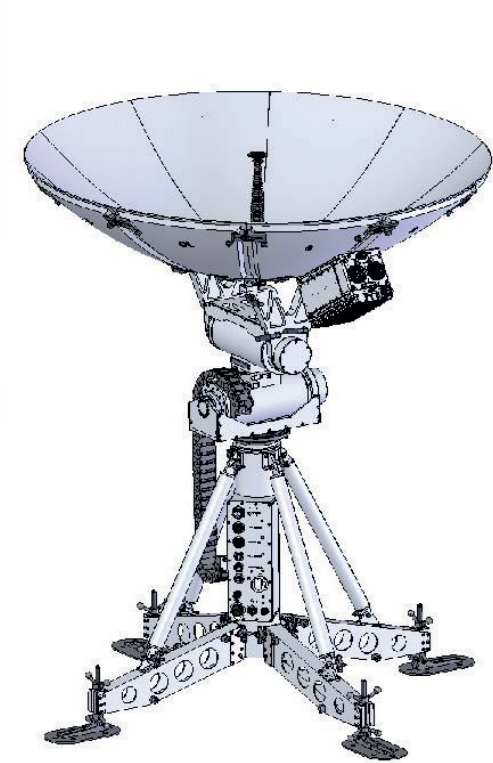
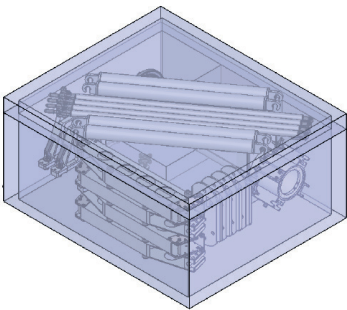
Pedestal Mounted with	90-265 VAC Inpiu Power, 500 Watts
Ethernet Interface	GPS/ Flux Gate Compass
Autolocate Features	
Tracking	Sun Tracking, TLE Tracking, Program Track, Dish Scan

Temperature

Operational	-30o to 60° C (-22o to 140° F)
Survival	-40o to 70° C (-40o to 158° F)

Winds

Operational (anchorad)	30 mph Gusting to 45 mph (48kph G 72 kph)
Survival (anchorad, petals removed)	75 mph



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