TRACKER 1500 TT

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

Product Sheet

COBHAM SATCOM
Connecting the future

TRACKER 1500 TT
1.5m X-Y Tactical Antenna
Ka-Band

The Cobham Satcom Tactical Tracker 1.5m X-Y antenna terminal designed to enable a new range of services and applications, utilizing both GEO and MEO/LEO satellites, and combine high performance and reliability with ease of installation and use. 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.

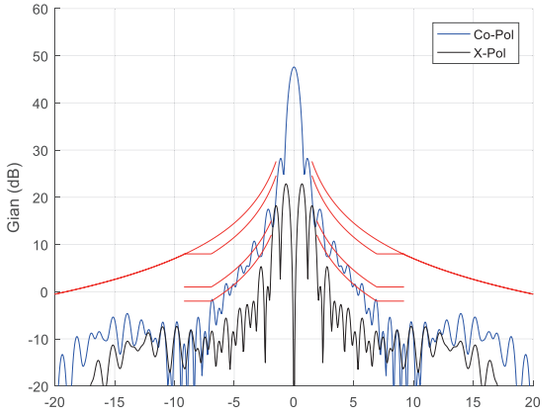
The Tactical Tracker is a compact, modular and cost-effective user terminal that provides secure, mission-critical data and control links for a growing range of defense and government applications.

Assembly time is less than 20 minutes, making this system satellite acquisition ready. The servo systems provide fullmotion control for continuous operation designed for high duty cycle LEO/MEO satellite tracking. The parabolic is a 9-pc segmented carbon fiber composite reflector and a high-performance servo control system.

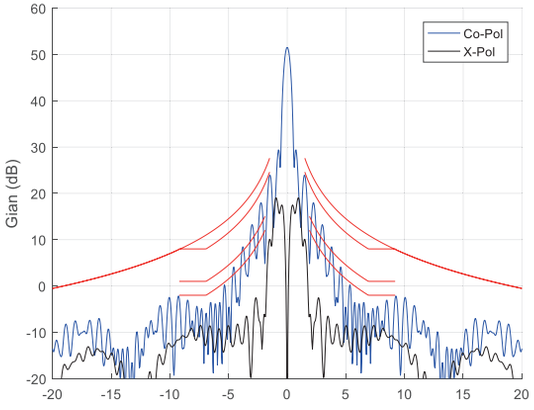
Any of our antenna products including our tactical tracking antennas can be customized for your requirement.

Please contact Kevin McMahon, Director of Sales at:
kevin.mcmahon@cobhamsatcom.com
or phone +1 321-586-7034

KA RX MID-BAND 45º-PLANEK



A TX MID-BAND 45º-PLANE



TRACKER 1500 TT
1.5-meter X-Y Tactical Antenna Ka-Band

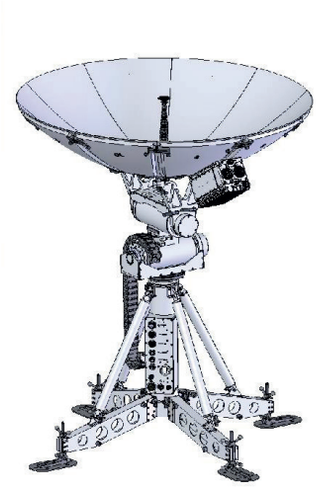
MECHANICAL/ ENVIRONMENTAL SPECIFICATION	
Reflector	1.5m Carbon Fiber
Reflector Configuration	9 Piece Symmetrical
Antenna Travel	Torque Mode Servo
X-axis	+/-90o continuous, > 15 deg/sec
Y-axis	0-180o > 15 deg/sec
Polarization	Optical
Packaging (3 cases)	
Reflector	26.5 X 26.5 X 15.6 (65 lbs)
Positioner	37.5 X 27.5 X 14.5 (90 lbs)
Pedestal /Controller Component	44.9 X 25.3 X 16.5 (115 lbs)

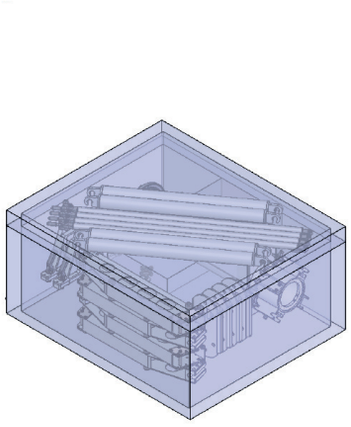
Servo Control System	
Pedestral Mounted with	
Ethernet Interface	90-265 VAC Inpiu Power, 500 Watts
Autolocate Features	GPS/ Flux Gate Compass
Tracking	Multiple Options
	Sun Tracking/TLE Tracking
Temperature	
Operational	-30o to 60o C (-22o to 140o F)
Survival	-40o to 70o C (-40o to 158o F)
Winds	
Operational (anchorad)	30 mph Gusting to 45 mph (48kph G 72 kph)
Survival (anchorad, petals removed)	75 mph

RF SPECIFICATIONS /ELECTRICAL

FEED	2-PORT KA-BAND	
RF	**Receive**	**Transmit**
Frequency (GHz)	17.7 - 22.2	27.5 - 31.0
Polarization	CP Cross-Pol	
Gain (Mid-Band)	46,0	49,0
Beamwidth, Midband (3dB)		
Axial Ratio	1,5	1,0
Cross Pol >		25 dB
Sidelobe Compliances		ITU-580
EIRP		
VSWR	1.35:1	1.30:1
Tx/Rx Feed Isolation		-70dB
G/T (10deg EL, dB/K)	25,5	
G/T (20deg EL, dB/K)	26,8	
G/T (40deg EL, dB/K)	27,2	

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)





For further information please contact:
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