

Mobile Tracking System (MTS)

MTS2-PLSB

PART NUMBERS:

MTS2-PLSB (2.0)

MTS2R-PLSB (RADOME)

MTS2-PLSB is a 4X4 panel antenna for MIMO/MANET radios that operate in the 1.3-1.8GHz and 2.2-2.5 GHz ranges.

Four TNC female connectors support dual radio operation in L and S bands simultaneously.

APPLICATIONS

- 4X4 MIMO / MANET radio networks.
- Urban area mesh radio networks.
- Ground-to-air links passing video and other IP data using an MTS 2.0.
- UAV, Manned Aerial Vehicles, and maritime environments using an MTS 2.0.



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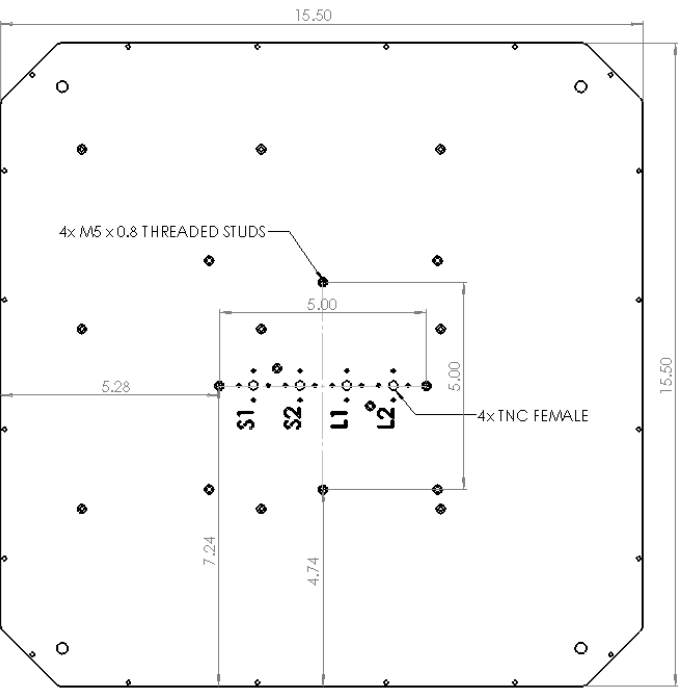
tsc.com



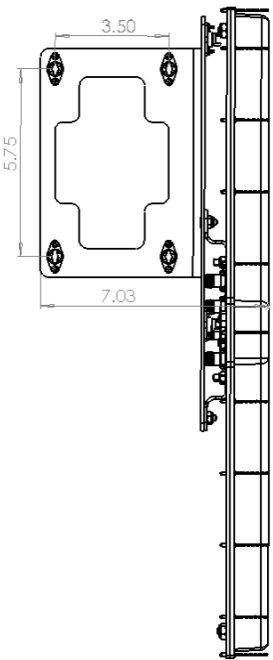
FEATURES

- Four chain panel antenna for dual radio operation in L & S band simultaneously.
 - Paired with a dual radio package (MPU5 & Silvus) ensures redundant datalinks
 - Track the same target in either frequency band
 - 1.3-1.8GHz and 2.2-2.5GHz frequency ranges.
- UV stable Kydex 100 black Radome.
 - Direct mounting to an MTS 2.0 with the provided bracket or 4x M5 x 0.8 threaded studs for custom applications.
 - 4x TNC female chains.

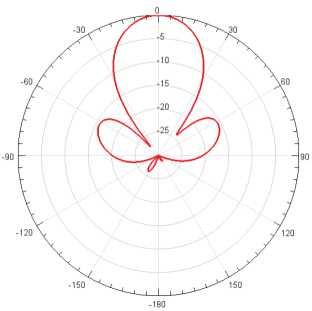
ENGINEERING DRAWINGS AND RF PATTERNS



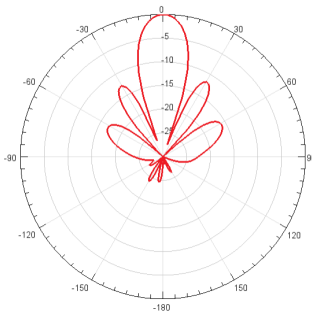
Threaded stud locations for custom solutions



Camloc mounting holes for MTS 2.0



L-Band



S-Band

SPECIFICATIONS

Antenna Pattern	Directional Antenna	Cross Polarization (L-Band)	30dB
Frequency Band	L & S	Cross Polarization (S-Band)	18dB
Impedance	50	Radome Material	UV Stable Kydex 100 Black
Minimum Frequency	1.3GHz / 1300MHz	Ground Plane Required	No
Maximum Frequency	2.5GHz / 2500MHz	Mounting Holes	4x Camloc Pattern or 4x M5 x 0.8 Studs
Maximum VSWR	1.5:1 Ratio	RF Connector Type	TNC Female x4
Maximum Gain (L/S)	14dBi / 18dBi	Product Length	16" / 407mm
Polarization	Slant Polarized	Product Width	16" / 407mm
Color	Black	Product Height (including bracket)	7" / 178mm
Maximum RF Input Power	20W	Product Height (antenna only)	1.5" / 40mm
Azimuth Beamwidth (L-Band)	33°	Product Weight	8lbs / 3.6kg
Elevation Beamwidth (L-Band)	33°		
Azimuth Beamwidth (S-Band)	18°		
Elevation Beamwidth (S-Band)	18°		

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