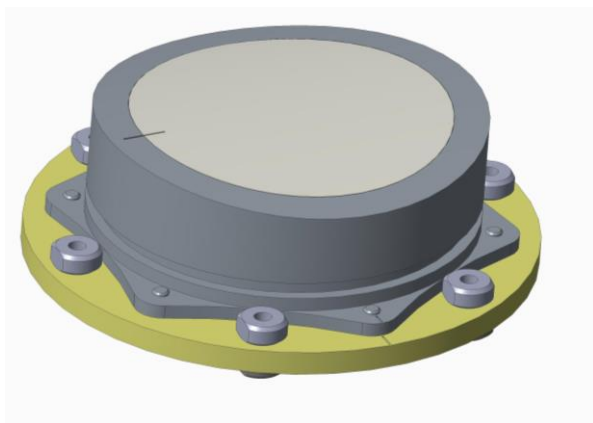


TRIBAND NAVIGATION ANTENNA – TTSLG3IA - 24

Key Features

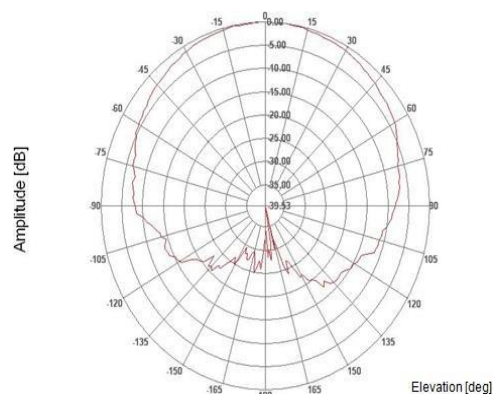
- Best Signal Reception in Multi - constellation mode.
- Excellent Multipath rejection
- Good Signal to Noise ratio and out of band Rejection
- The Low Power consumption
- Light weight with small form factor for easier integration.



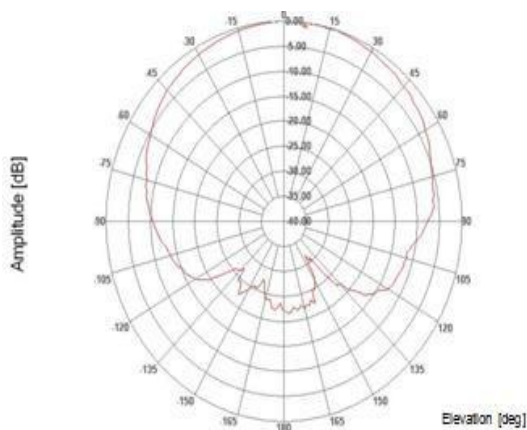
The TTSLG3IA-24 is a High-Performance Rugged Tri band GNSS Antenna designed to operate at GPS, GLONASS, Galileo, and the IRNSS bands making it suitable for Multi Constellation GNSS signal reception.

The Antenna has a good gain in each of the bands with a low noise figure and a high rejection at out of band frequencies making it suitable for High Precision GNSS based Navigational Applications

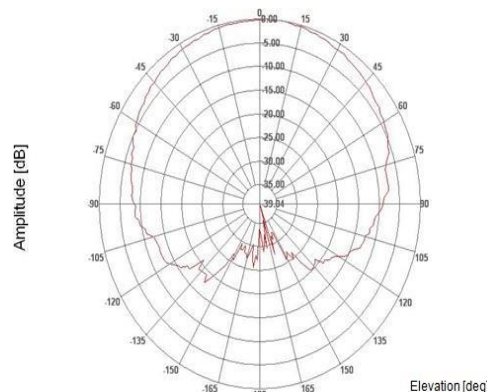
The Compact design which meets the environmental conditions, the ruggedized enclosure with Stainless Steel 304 and Glass epoxy base and Teflon/ Quartz Radome. The TTSLG3IA -24 is housed in a pre- tapped screw-hole mount, weather-proof enclosure for permanent installations



Radiation pattern at GPS-L1 band.



Radiation pattern at IRNSS-L5 band



Radiation pattern at IRNSS-S band

Technical Specifications

Electrical Specifications	
IRNSS L5	1164 MHz to 1188 MHz (24)
GPS L1 /GLONASS L1	1565 MHz to 1607 MHz (42)
Galileo E1	1575 MHz (24 MHz)
BeiDou B1	1561 MHz (4 MHz)
IRNSS S	2484 MHz to 2500 MHz (16)
VSWR	$\leq 2.0 :1$
Passive Gain	>3.5 dBiC at Bore sight or better
3dB Beam width	$>90^\circ$
LNA Gain	30 ± 2 dB (L and S)
LNA Power Consumption	5V - < 100 mA
Out of Band Rejection	60dB
Noise Figure	≤ 2.0 dB
Output Impedance	50 Ohms
Axial Ratio	< 3 dB
Lightening Protection	DC Grounding
Power Handling	1 Watt
Connector	TNC - (F)

Environmental Specifications	
Mounting	Standard Screw Mounting
Operating Temperature	-55°C to $+150^\circ\text{C}$
Humidity	95% RH at 45°C

Environmental Stress Screening	
Mechanical Vibration	MIL-STD-810G / JSS 55555
Functional Shock	MIL-STD-810G / JSS 55555
Crash hazard	MIL-STD-810G / JSS 55555
Temperature and Altitude	MIL-STD-810G / JSS 55555
Humidity	MIL-STD-810G / JSS 55555
Temperature Shock	MIL-STD-810G / JSS 55555
Salt Fog	MIL-STD-810G / JSS 55555
Fungus	MIL-STD-810G / JSS 55555
Sand and Dust	MIL-STD-810G / JSS 55555
EMI & EMC	MIL-STD-461F

Mechanical Specifications	
Dimension Excluding Connector (D x H)	120 X 48 mm (Without connector)
Dimension Including Connector (D x H)	120 X 62.5 mm (With connector)
Weight	$1.35\text{kg} \pm 30\text{gms}$