



A TIME AND PLACE *for everything™*

TW2500 Magnet Mount Globalstar™ Certified STU Antenna

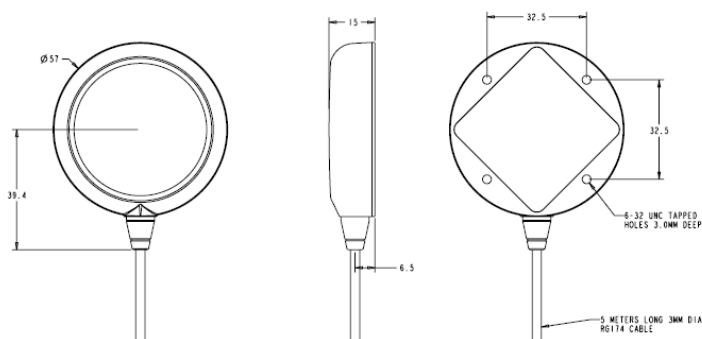
The TW2500 by Tallysman Wireless is a professional grade, magnet mount, passive left hand circularly polarised antenna for the 1610 to 1620 MHz frequency band, certified and specifically designed to maximise the performance of the Globalstar™ STU (Simplex Transmit Unit) Modem.

The TW2500 features a high performance dual-feed patch element that provides great axial ratio (3 dB max) over the entire Globalstar™ frequency band, thus signals at the band edges remain truly circular, unlike the response of single feed antennas.

The TW2500 is housed in a compact, industrial-grade weather-proof, magnet mount enclosure, with threaded base holes for screw down attach. It is available with a 50 cm cable, allowing for the STU modem to be mounted out of the elements and reach, and still providing excellent Globalstar™ signal coverage.



TW2500 DIMENSIONS (mm)



Applications

- Simplex Transmit Unit (STU) Applications
- Sea & Land Container Tracking
- Military & Security
- Fleet Management & Asset Tracking
- Marine & Avionics Systems
- Law Enforcement & Public Safety

Features

- Custom high gain 4.25 dBic dual-feed patch
- Great axial ratio, 3 dB over full bandwidth
- ESD 15 KV circuit protection
- Weather proof, IP67 housing
- Robust Industrial grade enclosure
- Magnet or screw mount
- Wide range of connector options

Benefits

- Excellent circular polarized signal transmission
- Industrial temperature range
- Rugged Design
- Ideal for harsh environments
- RoHS compliant
- Remote STU antenna



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TW2500 Magnet Mount Globalstar™ Certified STU Antenna Specifications

Over full bandwidth, T=25°C

Antenna

Architecture	Dual, quadrature feeds
Antenna Gain (100mm ground plane)	4.25 dBic
Axial Ratio (over full bandwidth)	≤3 dB
0.5dB Bandwidth	1600MHz to 1630MHz

Electrical

Architecture	Hybrid 90° phase splitter
Frequency Bandwidth	1615 MHz ±10 MHz
Polarization	LHCP
Gain flatness	≤1 dB, from 1610 to 1620 MHz
VSWR (at antenna)	<1.5:1
Return Loss (10 dB bandwidth)	<-20MHz
ESD Circuit protection	15 KV air discharge

Mechanicals & Environmental

Mechanical Size	57 mm dia. x 15 mm H
Connectors	SMA, TNC, MCX Male (Plug). Other connectors optional
Cable	RG174 / 50 cm, custom lengths optional
Operating Temp. Range	-40 to +85 °C
Enclosure	Radome: ASA Plastic, Base: Zamak White Metal
Weight	150 g
Attachment Method	Magnet or permanent (pre-tapped 4 x 6-32UNC)
Environmental	IP67 and RoHS compliant
Shock	Vertical axis: 50 G, other axes: 30 G
Vibration	3 axis, sweep = 15 min, 10 to 200 Hz sweep: 3 G
Warranty	One year – parts and labour

Ordering Information

Legacy Part Numbers:

TW2500 – Globalstar™ STU antenna, 50 cm cable, SMA Male	32-2500-0
TW2500 – Globalstar™ STU antenna, 50 cm cable, TNC Male	32-2500-1
TW2500 – Globalstar™ STU antenna, 50 cm cable, MCX Male	32-2500-2

* As a result of a growing product portfolio, Tallysman has rationalized its part number system. No changes have been made to the mechanical or electrical properties of these products. Where administratively possible, please use the following Part Numbers.

TW2500 – Globalstar™ STU antenna, 33-2500-xx-yyyy

Where xx = connector type and yyyy = cable length in mm

Please refer to the Ordering Guide (<http://www.tallysman.com/orderingguide.php>) for the current and complete list of available connectors.

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