When precision matters.

A Tallysman *Accutenna*[™] TW2500 Magnet Mount Globalstar[™] Certified STU Antenna

The TW2500 employs Tallysman's unique $Accutenna^{TM}$ technology in a 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 GlobalstarTM STU (Simplex Transmit Unit) Modem.

The TW2500 features a high performance dualfeed 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, industrialgrade 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.

Applications

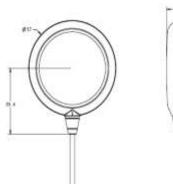
Tallysman

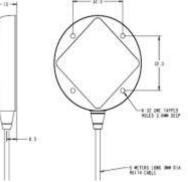
- Simplex Transmit Unit (STU) Applications
- Sea & Land Container Tracking
- Military & Security
- Fleet Management & Asset Tracking
- Marine & Avionics Systems
- Law Enforcement & Public Safety

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



Contact NavtechGPS for product details. www.NavtechGPS.com +1-703-256-8900 • 800-628-0885 • info@navtechgps.com

When **precision** matters.

TW2500 Magnet Mount GlobalstarTM Certified STU Antenna

Specifications Over full bandwidth, T=25°C

Antenna

Tallysman

Architecture Antenna Gain (100mm ground plane) Axial Ratio (over full bandwidth) 0.5dB Bandwidth

Electrical

Architecture **Frequency Bandwidth** Polarization Gain flatness VSWR (at antenna) Return Loss (10 dB bandwidth) ESD Circuit protection

Mechanicals & Environmental

Mechanical Size Cable **Operating Temp. Range** Enclosure Weight Attachment Method Environmental Shock Vibration Warranty

Dual, quadrature feeds 4.25 dBic < 3 dB1600MHz to 1630MHz

Hybrid 90° phase splitter 1615 MHz ±10 MHz LHCP ≤1 dB, from 1610 to 1620 MHz <1.5:1 typ. 1.8:1 max. <-20MHz 15 KV air discharge

57 mm dia. x 15 mm H RG174 -40 to +85 °C Radome: ASA Plastic, Base: Zamak White Metal 150 g Magnet or permanent (pre-tapped 4 x 6-32UNC) IP67 and RoHS compliant Vertical axis: 50 G, other axes: 30 G 3 axis, sweep = 15 min, 10 to 200 Hz sweep: 3 G One year - parts and labour

Ordering Information

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/wp-content/uploads/Current-Ordering-<u>Guide.pdf</u> for the current and complete list of available connectors.

Tallysman Wireless Inc

36 Steacie Drive Ottawa Ottawa ON K2K 2A9 Canada Tel 613 591 3131

Fax 613 591 3121

sales@tallysman.com

The information provided herein is intended as a guide only and is subject to change without notice. This document is not to be regarded as a guarantee of performance. Tallysman Wireless Inc. hereby disclaims any or all warranties and liabilities of any kind. © 2011 Tallysman Wireless Inc. All rights reserved. Rev 2.2



NavtechGPS for product details. www.NavtechGPS.com +1-703-256-8900 • 800-628-0885 • info@navtechgps.com