

# A Tallysman *Accutenna*® TW2600A Active Magnet Mount Iridium® Antenna

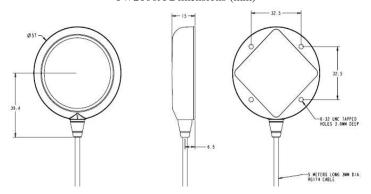
The TW2600A employs Tallysman's unique *Accutenna* technology in a magnet mount, active right hand circularly polarized antenna for the **reception** of all of the Iridum signals: 1615 to 1626.5 MHz frequency band. It is designed to receive the Iridium signal ONLY (ie not transmit). This antenna is uniquely designed for indoor timing applications relying upon Iridium's PNT signal.

The TW2600A features a high performance dual-feed patch element that provides great axial ratio (4.5dB max, <2dB @ zenith, typical) over the antenna's bandwidth, thus signals at the band edges remain truly circular, unlike the response of single feed antennas.

The TW2600A is housed in a compact, industrial-grade weather-proof, magnet mount enclosure, with threaded base holes for screw down attachment.



TW2600A Dimensions (mm)



### **Applications**

- Iridium™ PNT applications
- Timing (indoor and outdoor)
- Fleet Management & Asset Tracking
- Marine & Avionics Systems
- Law Enforcement & Public Safety

#### **Features**

- Custom high gain, 4.5dBic dual-feed patch
- Great axial ratio, <2dB over full bandwidth
- 15 KV ESD circuit protection
- IP67 weather proof housing
- Robust Industrial grade enclosure
- Magnet or screw mount

#### **Benefits**

- Excellent circular polarized signal transmission
- Industrial temperature range
- Rugged Design
- Ideal for harsh environments
- RoHS, REACH, and RED compliant



# TW2600A Active Magnet Mount Iridium® Antenna

**Specifications** Vcc = 3V, over full bandwidth, T=25°C

Antenna

Architecture Dual, quadrature feeds

Antenna Gain (dBic, 100mm ground plane) 4.5 Axial Ratio (over full bandwidth) ≤2 dB

**Electrical** 

Frequency Bandwidth 1615 to 1626.5 MHz

Polarization RHCP LNA Gain 26dB (min) 2.5-12VDC Input voltage Current 19mA

Cross Polarization Rejection typically 20dB VSWR (at antenna) <1.5:1 typ

**ESD Circuit protection** 15 KV air discharge 1dB typical

Noise Figure

**Mechanicals & Environmental** 

Mechanical Size 57 mm dia. x 15 mm H

Cable RG174 Operating Temp. Range -40 to +85 °C

Enclosure Radome: EXL9330, Base: Zamak white metal

Weight

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

# **Ordering Information**

TW2600A - Active Iridium™ Antenna, 33-2600A-xx-yyyy Where xx = connector type and yyyy = cable length in mm

Please refer to the Ordering Guide <a href="mailto:fhttp://www.tallysman.com/wp-content/uploads/Current-Ordering-">fhttp://www.tallysman.com/wp-content/uploads/Current-Ordering-</a> <u>Guide.pdf</u>) for the current and complete list of available connectors.

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