

# A Tallysman *Accutenna*® TW2600 Magnet Mount Iridium<sup>TM</sup> Certified Antenna

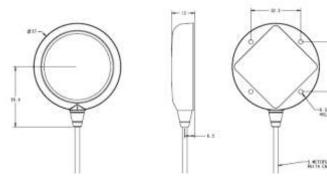
The TW2600 employs Tallysman's unique *Accutenna* technology in a magnet mount, passive right hand circularly polarised antenna for the 1616 to 1626.5 MHz frequency band, certified and specially designed to maximise the performance of Iridium $^{\text{TM}}$  Voice and Data Modems.

The TW2600 features a high performance dual-feed patch element that provides great axial ratio (3dB max) over the entire Iridium $^{\text{TM}}$  frequency band, thus signals at the band edges remain truly circular, unlike the response of single feed antennas.

The TW2600 is housed in a compact, industrial-grade weather-proof, magnet mount enclosure, with threaded base holes for screw down attach.



TW2600 Dimensions (mm)



## **Applications**

- Iridium™ Voice and Data 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
- 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 compliant
- Remote SBD antenna



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

#### Antenna

Architecture
Antenna Gain (100mm ground plane)

Axial Ratio (over full bandwidth)

#### **Electrical**

Architecture Frequency Bandwidth

Polarization

**Cross Polarization Rejection** 

Gain flatness VSWR (at antenna)

Return Loss Bandwidth(10 dB return loss)

**ESD Circuit protection** 

#### **Mechanicals & Environmental**

Mechanical Size

Cable

Operating Temp. Range

Enclosure Weight

Attachment Method

Environmental

Shock

Vibration

Dual, quadrature feeds

4.25 dBic ≤3 dB

Hybrid 90° phase signal splitter

1616 to 1626.5 MHz

RHCP

typically 20dB

< 0.5 dB, from 1616 to 1626.5 MHz

<1.5:1 typ. 1.8:1 max.

>20 MHz

15 KV air discharge

57 mm dia. x 15 mm H

RG174 / 50 cm, custom lengths optional

-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

## **Ordering Information**

TW2600 – Iridium<sup>™</sup> antenna, 33-2600-xx-yyyy Where xx = connector type and yyyy = cable length in mm

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

# **Tallysman Wireless Inc**

36 Steacie Drive

Ottawa ON K2K 2A9 Canada

Tel +1 613 591 3131

Fax 613 591 3121

sales@tallysman.com

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