### Contact us for product details and pricing

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# A Tallysman Accutenna<sup>®</sup> TW2643POC Magnet Mount Passive Iridium<sup>®</sup> / GNSS Antenna for Open Cellular Design

The TW2643POC is the antenna specified by Open Cellular and is shown on the third page of this document. This Antenna includes all parts as shown on Page 3. No additional parts need to be ordered.

The TW2643POC employs Tallysman's unique *Accutenna* technology in a magnet mount, passive right hand circularly polarised antenna for the reception of all of the GNSS constellations (GPS L1/GLONASS G1/ Galileo E1/ BeiDou B1) plus Iridum: 1559 to 1626.5 MHz frequency band. It is certified and specially designed to maximize the performance of Iridium<sup>™</sup> Voice and Data Modems plus the upper GNSS band (1559 – 1606MHz)

The TW2643POC features a high performance dual-feed patch element that provides great axial ratio (4.5dB max, <1.5dB @ zenith) over the entire Iridium<sup>™</sup> + upper GNSS frequency band, thus signals at the band edges remain truly circular, unlike the response of single feed antennas.

The TW2643POC is housed in a compact, industrial-grade weather-proof, magnet mount enclosure, with threaded base holes for screw down attachment.

# Applications

• Iridium<sup>™</sup> Voice and Data Applications+ GNSS Specifically for the Open Cellular Specification



# Features

- Custom high gain, 5dBic dual-feed patch
- Great axial ratio, <1.5dB 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



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# TW2643POC Magnet Mount Passive Iridium® / GNSS Antenna for **Open Cellular Design**

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

#### Antenna

Tallysman

Architecture Antenna Gain (dBic, 100mm ground plane)

Axial Ratio (over full bandwidth)

### **Electrical**

**Frequency Bandwidth** Polarization **Cross Polarization Rejection** VSWR (at antenna) **ESD** Circuit protection

### **Mechanicals & Environmental**

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

#### Dual, quadrature feeds

B1/E1	L1	G1	Iridium
>3.5	>4.5	>5	>4.5
≤1.5 dB			

1559 to 1626.5 MHz RHCP typically 20dB <1.5:1 typ 1.8:1 max. 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 160 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**

TW2643POC – Passive Iridium<sup>™</sup> + GNSS antenna, Where 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.

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