



A Tallysman Accutenna® TW2643P Magnet Mount Passive Iridium® / GNSS Antenna

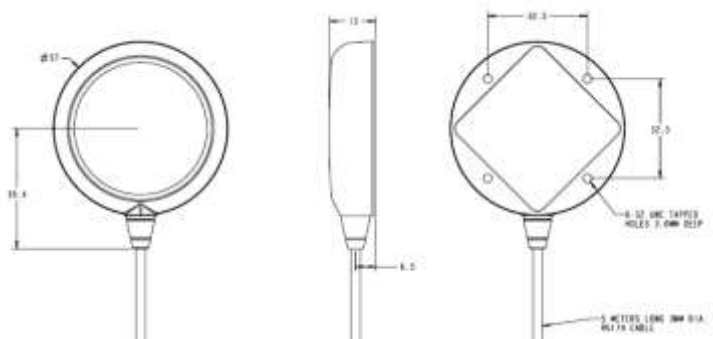
The TW2643P employs Tallysman's unique *Accutenna* technology in a magnet mount, passive right hand circularly polarised antenna for the reception of all of the GNSS constellations (GPS L1/GLONASS G1/ Galileo E1/ BeiDou B1) plus Iridium: 1559 to 1626.5 MHz frequency band. It is certified and specially designed to maximize the performance of Iridium™ Voice and Data Modems plus the upper GNSS band (1559 – 1606MHz)

The TW2643P features a high performance dual-feed patch element that provides great axial ratio (4.5dB max, <1.5dB @ zenith) over the entire Iridium™ + upper GNSS frequency band, thus signals at the band edges remain truly circular, unlike the response of single feed antennas.

The TW2643P is housed in a compact, industrial-grade weather-proof, magnet mount enclosure, with threaded base holes for screw down attachment.



TW2643P Dimensions (mm)



Applications

- Iridium™ Voice and Data Applications+ GNSS
- Sea & Land Container Tracking
- Military & Security
- Fleet Management & Asset Tracking
- Marine & Avionics Systems
- Law Enforcement & Public Safety

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
- Remote SBD antenna



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Specifications

Vcc = 3V, over full bandwidth, T=25°C

Antenna

Architecture

Dual, quadrature feeds

Antenna Gain (dBic, 100mm ground plane)

B1/E1	L1	G1	Iridium
>3.5	>4.5	>5	>4.5

Axial Ratio (over full bandwidth)

≤1.5 dB

Electrical

Frequency Bandwidth

1559 to 1626.5 MHz

Polarization

RHCP

Cross Polarization Rejection

typically 20dB

VSWR (at antenna)

<1.5:1 typ 1.8:1 max.

ESD Circuit protection

15 KV air discharge

Mechanicals & Environmental

Mechanical Size

57 mm dia. x 15 mm H

Cable

RG174 / 50 cm, custom lengths optional

Operating Temp. Range

-40 to +85 °C

Enclosure

Radome: ASA plastic, Base: Zamak white metal

Weight

160 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

Ordering Information

TW2643P – Passive Iridium™ + GNSS antenna,

33-2643P-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-Guide.pdf>) for the current and complete list of available connectors.

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