



## A Tallysman Accutenna® TW3600 Permanent Mount Iridium® Antenna

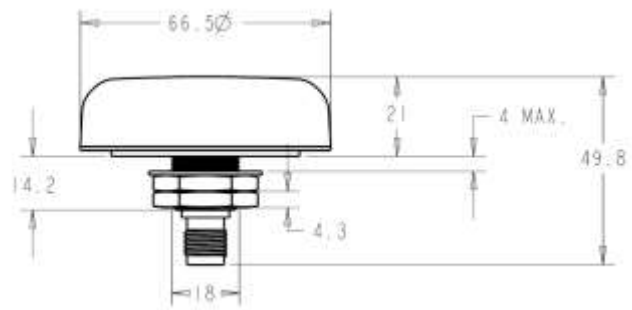
The TW3600 employs Tallysman's unique *Accutenna* technology in a permanent mount, passive right hand circularly polarised antenna for the 1616 to 1626.5 MHz frequency band, specially designed to maximise the performance of Iridium™ voice and data modems.

The TW3600 features a high performance dual-feed patch element that provides great axial ratio (3dB max) over the entire Iridium™ frequency band, thus signals at the band edges remain truly circular, unlike the response of single feed antennas.

The TW3600 is housed in a permanent mount industrial-grade weather-proof enclosure and comes with a TNC Jack (female) connector, allowing for the Iridium™ modem to be mounted out of the elements and reach, and still providing excellent Iridium™ signal coverage.



TW3600 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
- Surface, bracket or mast mount

### Benefits

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



# TW3600 Permanent Mount Iridium® Antenna

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

### Antenna

|                                   |                        |
|-----------------------------------|------------------------|
| Architecture                      | Dual, quadrature feeds |
| Antenna Gain (100mm ground plane) | 4.25 dBic              |
| Axial Ratio (over full bandwidth) | ≤3 dB                  |
| Radiated Bandwidth (-0.5 dB)      | 1605 MHz to 1635 MHz   |

### Electrical

|                                |                                  |
|--------------------------------|----------------------------------|
| Architecture                   | Hybrid 90° phase signal splitter |
| Frequency Bandwidth            | 1616 to 1626.5 MHz               |
| Polarization                   | RHCP                             |
| Gain flatness                  | ≤0.5 dB, from 1616 to 1626.5 MHz |
| VSWR (at antenna)              | <1.5:1                           |
| Return Loss (-10 dB bandwidth) | >20 MHz                          |
| ESD Circuit protection         | 15 KV air discharge              |

### Mechanicals & Environmental

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Mechanical Size       | 66.5 mm dia. x 21 mm H                          |
| Cable (Option)        | Custom cable assembly available.                |
| Operating Temp. Range | -40 to +85 °C                                   |
| Enclosure             | Radome: EXL9330, Base: Zamak White Metal        |
| Weight                | 150 g                                           |
| Attachment Method     | Permanent 3/4" (19mm) through hole mount        |
| 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 |
| Warranty              | One year, parts and labour                      |
| Salt Spray            | MIL-STD-810F Section 509.4                      |

### Ordering Information

TW3600 – Iridium® antenna      33-3600-xx-yy-zzzz

Where xx = connector type, yy = shape and colour of radome and zzzz = cable length in mm (where applicable)

Please refer to the Ordering Guide (<http://www.tallysman.com/orderingguide.php>) for the current and complete list of available radomes and connectors.

### Tallysman Wireless Inc

36 Steacie Drive  
Ottawa ON K2K 2A9 Canada Canada  
Tel 613 591 3131      Fax 613 591 3121  
[sales@tallysman.com](mailto:sales@tallysman.com)

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