

TW3600



Permanent-Mount Iridium® Antenna

Frequency Coverage: Iridium

The TW3600 employs Calian's patented 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 (3 dB 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 weatherproof 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.



Applications

- Iridium® Voice and Data Applications
- Sea & Land Container Tracking
- Law enforcement and public safety
- Fleet management and asset tracking
- Marine & Avionics Systems
- Law enforcement and 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
- IP69K weatherproof 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
- CE RED, RoHS, and REACH compliant
- Remote antenna

About Calian: With global headquarters and manufacturing in Ottawa, Canada, Calian is a leading manufacturer of high-precision antennas and components for Global Navigation Satellite System (GNSS) applications. Calian's mission is to support the needs of a new generation of positioning systems by delivering unprecedented antenna precision at competitive prices. Learn more at www.calian.com

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Antenna - Measured with a 100 mm ground plane

Technology Dual-feed RHCP ceramic patch

		Gain	Axial Ratio
		dBic typ. at Zenith	dB at Zenith
GNSS			
GPS / QZSS	L1	-	-
	L2	-	-
	L5	-	-
GLONASS	G1	-	-
	G2	-	-
	G3	-	-
Galileo	E1	-	-
	E5A	-	-
	E5B	-	-
	E6	-	-
BeiDou	B1	-	-
	B2b	-	-
	B2a	-	-
	B3	-	-
IRNSS / NavIC	L5	-	-
QZSS	L6	-	-
L-Band Services (1539 MHz - 1559 MHz)		-	-
Satellite Communications			
Iridium		4.25	≤3
Globalstar		-	-
Other			
Axial Ratio at 10°		-	Efficiency
PCV Φ > 15°		-	PCO

Mechanicals

Size	66.5 mm (dia.) x 21 mm (h.)
Weight	150 g
Radome	LEXAN™ EXL9330, Base: Zamac Metal
Mount	Through-hole (100 mm ground plane provided)
Available Connectors	Please refer to ordering guide

Environmental

Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +95 °C
Vibration	MIL-STD-810-E - Test Method 514.5
Shock	MIL-STD-810-G - Test Method 516.6
Salt Fog	MIL-STD-810-F - Test Method 509.5
Other Tests	Hail, Humidity, Dust, Rain, Sand, Solar
IP Rating	IP69K
Compliance	IPC-A-610, FCC, CE RED, RoHS, REACH

Warranty

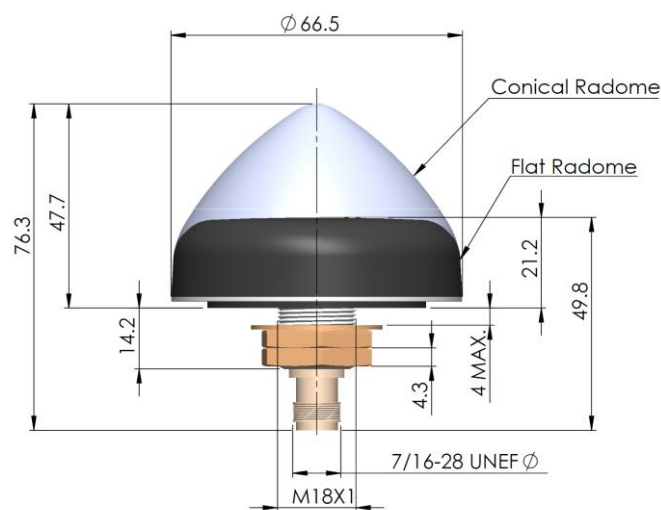
Parts and Labour	3-year standard warranty
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Low Noise Amplifier (LNA) - Measured at 3V and 25°C

Frequency Bandwidth	Out of Band Rejection
Lower Band	-
L-Band Corr.	-
Upper Band	1616-1626 MHz

Architecture	Passive
Gain	-
Noise Figure	-
VSWR	< 1.5:1 typ., 1.8:1 max.
Supply Voltage Range	-
Supply Current	-
ESD Circuit Protection	-
P 1dB Output	-
Group Delay	-

Mechanical Diagram - Units in 'mm' or 'inches' where specified



Ordering Information

Part Number 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 our **Ordering Guide** to review available radomes and connectors at: <https://www.tallysman.com/resource/tallysman-ordering-guide/>