

TW2400 Magnet Mount GPS/GLONASS Antenna

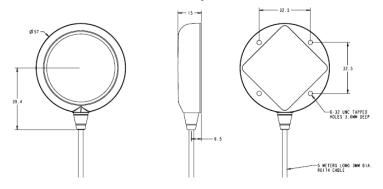
The TW2400 by Tallysman Wireless is a professional grade GNSS antenna covering the GPS L1, GLONASS L1 and SBAS (WAAS, EGNOS & MSAS) frequency band (1574 to 1606 MHz). It is especially designed for precision industrial, agricultural and military applications and offers excellent circular polarized signal reception, multipath rejection and out of band signal rejection.

The TW2400 features a dual-feed wideband patch element, with a two stage Low Noise Amplifier, comprised of one input LNA per feed, a mid section SAW to filter the combined output, and a final output gain stage. This configuration provides excellent axial ratio that is constant across the full frequency band.

The TW2400 is housed in a compact, industrial-grade weather-proof, magnet mount enclosure, and comes with a bulkhead SMA female connector or with 5 metres of cable and a wide



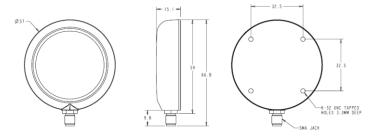
Dimensions (mm) p/n 32-2400-0



Dimensions (mm) p/n 32-2400-7



- High Accuracy & Mission Critical Positioning
- Precision Agriculture, Mining & Construction
- Military & Security
- Avionics
- Law Enforcement & Public Safety
- Fleet Management & Asset Tracking



Features

- Great axial ratio: 1 typ., 3 dB max
- Low noise LNA: 1 dB
- High rejection SAW filter
- High gain: 28 dB typ.
- Low current: 10 mA typ.
- Wide voltage input range: 3.0 to 12 VDC
- IP67 weather proof housing

Benefits

- Excellent multipath rejection
- Increased system accuracy
- Excellent signal to noise ratio
- Great out of band signal rejection
- Ideal for harsh environments
- RoHS compliant



TW2400 Magnet Mount GPS/GLONASS Antenna **Specifications**

Antenna

Architecture

1 dB Bandwidth

Antenna Gain (with 100mm ground plane)

Axial Ratio over Bandwidth (over full bandwidth)

Electrical

Architecture

Filtered LNA Frequency Bandwidth

Polarization

Gain

Gain flatness

Out-of-Band Rejection

<1500 MHz

<1550 MHz

>1640 MHz

VSWR (at LNA output)

Noise Figure

Supply Voltage Range (over coaxial cable)

Supply Current

ESD Circuit Protection

One LNA per feed line, mid section SAW filter 1574 to 1606 MHz

1 typ., 3 dB max

Dual, Quadrature Feeds

RHCP

30 MHz

4.25 dBic

28 dB min., 1575,42 to 1606 MHz

+/- 2 dB, 1575 to 1605 MHz

>32 dB

>25 dB >35 dB

<1.5:1

1 dB tvp.

+3.0 to 12 VDC nominal

10 mA typ.

15 KV air discharge

Mechanicals & Environmental

Mechanical Size

Connectors

Operating Temp. Range

Enclosure

Weight

Attachment Method

Environmental

Shock

Vibration Warranty 57 mm dia. x 15 mm H

Bulkhead SMA female, or SMA male on cable,

other connectors optional

RG174 / 5 metres, other lengths optional

-40 to +85 °C

Radome: ASA plastic, Base: Zamak white metal

Magnet or permanent (pre-tapped 4 x 6-32 UNC)

IP67 and RoHS compliant

Vertical axis: 50 G, other axes: 30 G

3 axis, sweep = 15 min, 10 to 200 Hz sweep: 3 G

One year, parts and labour

Ordering Information

TW2400 – GPS/Glonass Antenna, 5 metre cable, SMA Male TW2400 - GPS/Glonass Antenna, Bulkhead SMA Female

32-2400-0

32-2400-7

Please contact Tallysman Wireless for additional information

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