

GNSS ANTENNA GALILEO, GLONASS, GPS, SBAS, BEIDOU

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The CM0212A1 time reference is a high-gain GNSS antenna specifically designed for timing applications where high levels of near-out-of-band interfering signals can be expected.

It covers the BEIDOU B1, GALILEO E1, GPS L1, GLONASS L1 AND SBAS (WAAS, EGNOS, QZSS & MSAS) frequency band (1557 to 1606 MHz).

This antenna is well suited for long-term deployments within harsh environment of critical infrastructure such as ground station, shelters or military centers.

With a low noise level and a high gain amplifier, this antenna is well suited to address problems associated with applications requiring long cables (less than 110 meters)

The proprietary design coupled with multi-stage filtering provides better outof-band rejection than traditional patch antennas.

This multiband antenna covers GPS, GLONASS and SBAS frequencies.

Their unique radome shape repels water and ice, while eliminating problems with perching birds.

A range of compatible mounting configurations is possible. Custom templates or site kits options are also available.

This antenna is made of materials that fully respect the provisions of the European Directives CE, RoHS and REACH

The antenna also has ESE protection up to 15KV air discharge.

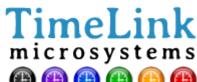


Features

- Great axial ratio: 1 dB typ.
- Low noise LNA: 1 dB
- High rejection SAW filter
- High gain LNA: 40 dB typ.
- Low current: 19 mA typ.
- Wide voltage input :2.5/16
- IP67 weather proof housing

Benefits

- Circular polarization throughout the full bandwidth
- Superior multipath signal rejection
- Excellent signal to noise ratio
- Great out of band signal rejection
- Increased system accuracy
- Ideal for harsh environments
- RoHS and REACH compliant













Specification

Antenna

Architecture 2 dB Bandwidth Antenna Gain (with 100mm ground Axial ratio (over full bandwidth)

Dual, Quadrature Feeds 47Mhz 4,25 dBic

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<2dB typical, 3dB max

1559 to 1606MHz

Electrical

Filtered LNA Frequency Bandwidth Polarization LNA Gain Gain Flatness Out-of-Band Rejection <1500MHz <1640MHz

40dB min +/-2 dB, 1559 to 1606 MHz >32dB >35dB <1.5:1 typical, 1.8:1 max 1dB typical 2,5 to 16 VDC nominal

RHCP

VWSR (at LNA output) Noise Figure Supply Voltage Range (over coaxial cable) Supply current **ESD Circuit Protection**

19mA typical 15 KV air discharge

Mechanicals & Environmental

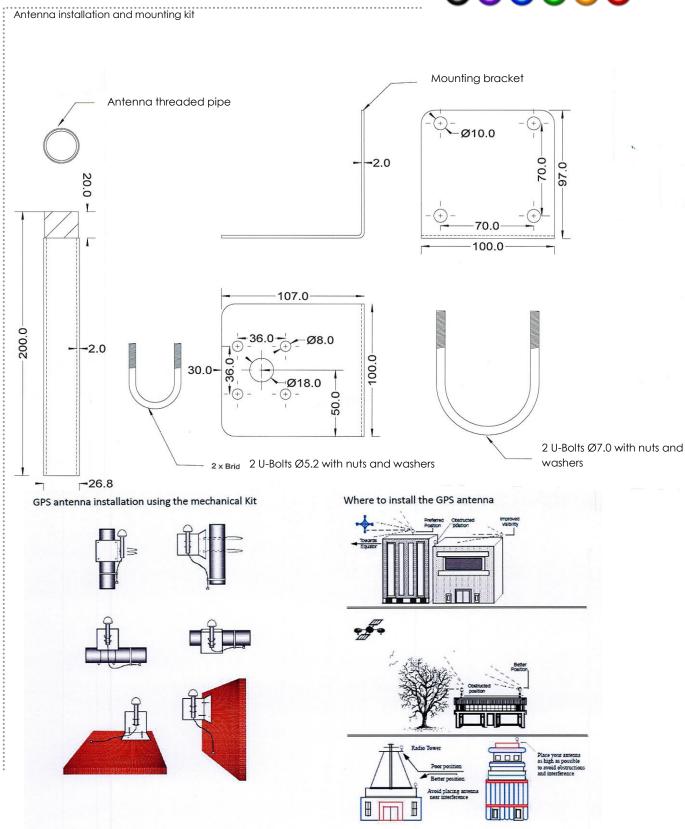
Mechanical size Operating Temperature Range Storage Temperature Range **Enclosure**

Weight Attachment Method Environmental Shock Vibration

Salt Spray

66,5 mm diameter * 21 mm H -40 to +85°C -45 to +85°C Radome:EXL9330, Base: ZAMAK White Metal 150g Permanent IP67, RoHS, REACH, ITAR Free and RED compliant Vertical axis: 50G, other axes: 30G 3 axis, sweep=15min, 10 to 200Hz sweep: 3G MIL-STD-810F section 509,4





Order code

CMO212A1: GNSS Antenna