PolaNt-x MF

High-precision multi-frequency GNSS antenna

septentrio Antennas

Mapping

Survey & GIS

Marine

Automation

Precision Agriculture

KEY FEATURES

- **Multi-constellation tracking: GPS, Galileo, GLONASS, BeiDou, NavIC and QZSS**
- **Reception of Inmarsat L-Band signals compatible with correction services**
- **Superior multipath characteristics**
- **Ruggedized design**

PolaNt-x MF is a lightweight high-precision antenna for geodetic, survey and machine control applications. This high-gain antenna incorporates low-noise amplifiers, enabling multi-frequency GNSS signal reception and are built into a rugged and environmentally sealed housing.

The PolaNt-x MF antennas have an optimised ground plane design, providing excellent multipath characteristics.

Enabling the tracking of the upper and lower (1525-1610 MHz, 1160-1252 MHz) GNSS signals, the PolaNt-x MF is ideal for high precision applications.

PolaNt-x MF

FEATURES

Signals

L-Band (MSS)	
GPS	L1, L2, L5
GLONASS	L1, L2, L3
Beidou	B1, B2
Galileo	E1, E5a, E5b
SBAS	L1, L5
NavIC	L5
QZSS	L1, L2, L5

Frequencies

1525-1610 MHz

1160-1252 MHz

Polarisation	RHCP
Axial Ratio	3 db Max

Radiation Coverage

Zenith	6.0 dBic
15° elevation	-2.0 dBic
10° elevation	-3.0 dBic
5° elevation	-4.0 dBic
Horizon	-5.0 dBic

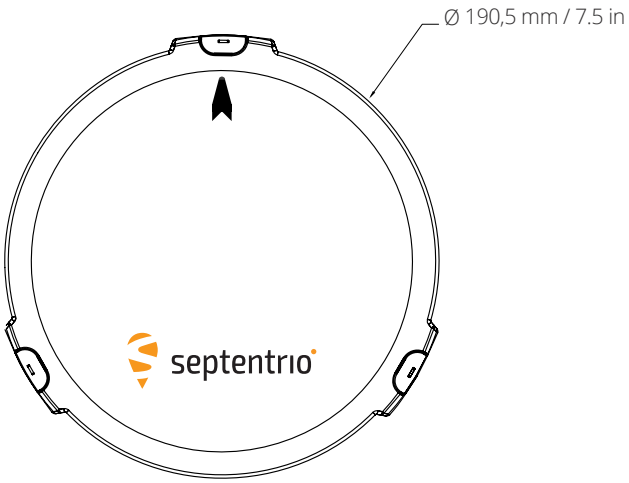
Amplifier

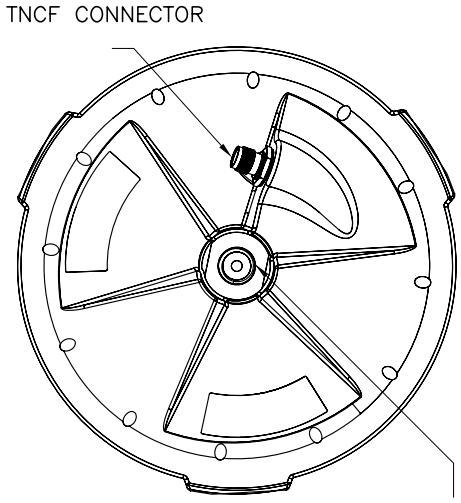
Gain	39 ± 2 dB
Noise Figure	2.6 dB max
Input Voltage	+3 to +15 VDC
Current	45 m A (typ)
Impedance	50 Ω
VSWR	≤ 2.0:1

Physical and Environmental

Finish	Weatherproof polymer
Weight	450 g / 0.99 lbs
Diameter	190 mm / 7.50 in
Connector	TNC Female
Temperature	-50° C to + 70° C -58° F to 158° F
Certification	CE, RoHS and WEEE

DIMENSIONS

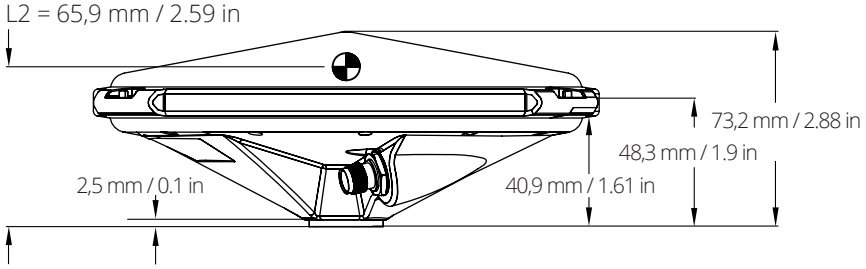




PHASE CENTER OFFSETS

L1 = 57,8 mm / 2.28 in

L2 = 65,9 mm / 2.59 in



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