

G3Ant-53XXX series antenna

Pipe mount GNSS antenna

The G3Ant-53XXX product family provides assured Global Navigation Satellite System (GNSS) signal reception through multi-constellation reception. This G3 antenna includes coverage across three frequency bands: GLONASS L1, GPS L1 plus Galileo E1 and L-Band with B1 BeiDou. This product allows for pipe-mount installation for applications such as surveying and precise timing.

This product is available in passive and active (amplified) configurations. The active configurations offer 2-stage integrated bandpass filtering for high out-of-band rejection and limiter diodes to protect sensitive receiver electronics. The passive configurations are best suited to applications where the antenna is located close to the GNSS receiver and offers the lowest insertion loss to minimize the noise figure of your system.

Antcom can customize this product family to meet your specific requirements. Please contact us for more information about customization options.



Features

- Multi-constellation for precise position and timing
- Passive or active (amplified) configurations available
- DC power input through RF connector
- Connector options available
- Paint color options available

Benefits

- Designed for easy pipe mount installation and setup
- Well suited to survey and timing applications
- Multi-frequency GNSS coverage for accuracy

G3Ant-53XXX

LNA Gain
A = with LNA
P = Passive

Color (per AMS-STD-595)
1 = Gloss White #17925
2 = Lusterless Gray #36320
3 = Camo Green #34094
4 = Lusterless Black #37038
5 = Desert Tan #33446

Connector
S = SMA
T = TNC
N = Type N bulkhead

Electrical

Frequency range

GPS L1	1575.42 ± 12 MHz
GLONASS L1	1609 ± 7.0 MHz
Galileo E1	1575.42 ± 17 MHz
BeiDou B1	1561.098 ± 10 MHz
L-Band	1545 – 1610 MHz

VSWR

<2.0:1

Impedance

50 ohms

Polarization

RHCP

Mechanical and environmental

Weight (typical) 8.87 oz (251 g)

Temperature -55°C to +85°C

Altitude 70,000 ft

Random vibration >30 G_{rms}

Typical LNA performance

LNA gain

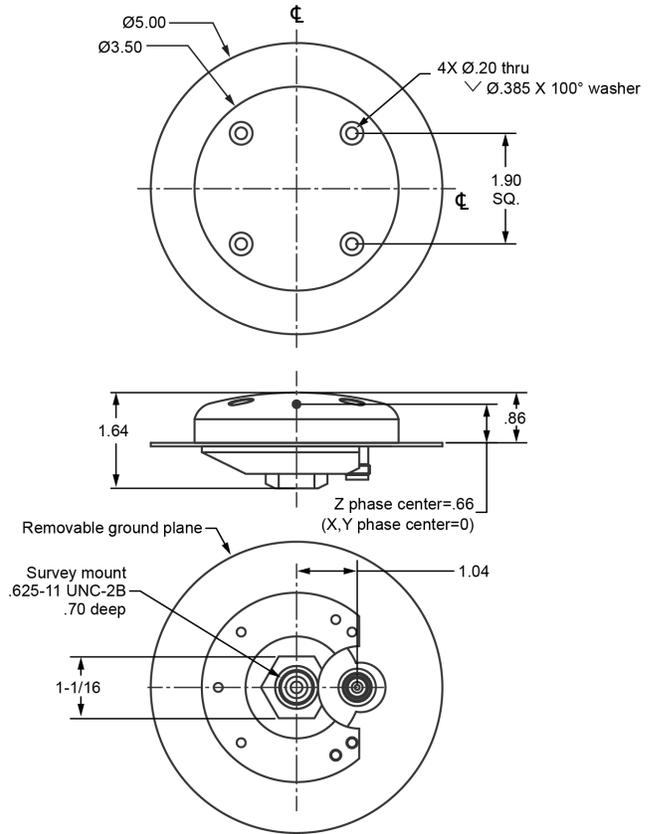
A option	LNA
P option	Passive

LNA noise figure 3.5 dB

LNA P1dB out +13 dBm

Input power +3.8 to +15.0 VDC
<40 mA

Power handling 1 Watt CW



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For the most recent details of this product: antcom.com

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