

# **G5ANT-2XMNXX ANTENNA FAMILY**

# Magnetic Mount GNSS Antenna

The G5Ant-2XMNXX product family is a small-footprint, multi-frequency antenna for assured Global Navigation Satellite Signal (GNSS) signal reception. This Antcom "G5" antenna operates in five frequency bands and includes support for GLONASS L1, GPS L1, L-Band, L2 GLONASS, and L2 GPS. Bottom-mount and magnetic mount features are provided for easy integration into your application. The RF connector is mounted on the side of the enclosure for quick access.

The product family is offered 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 offer the lowest insertion loss for minimizing 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.

#### BENEFITS

- Ruggedized enclosure designed for easy integration
- Many standard options available, and customizable if required

## FEATURES

- Multi-frequency, multi-constellation for assured GNSS reception
- Magnetic mount or bottom mount
- Passive or active (amplified) configurations available
- DC power input through RF connector
- Connector options available
- Paint color options available



## OPTIONS

COLOR

- Gloss WhiteLusterless Gray
- Camo Green
- Lusterless Black
- Tan

CONNECTOR

SMATNC

LNA GAIN

- With 33 dB LNA
- With 40 dB LNA
- Without LNA
- Passive

"These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations."

#### **ELECTRICAL**

Frequency Range:	
L2 GPS B2 BeiDou	1227.60 ± 12.0 MHz 1207.14 ± 1217.14 MHz
L2 GLONASS	1252.50 ± 7 .5 MHz
L-Band E6 Galileo B1 BeiDou	1545-1610 MHz 1561.098 ± 10.0 MHz
L1 GPS E1 Galileo	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz
L1 GLONASS	1609 ± 7.0 MHz
VSWR	<2.0:1
Impedance	50 ohms
Polarization	RHCP

## **MECHANICAL & ENVIRONMENTAL**

Designed to:

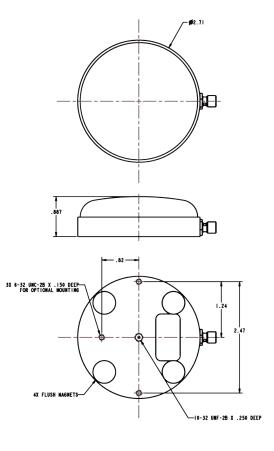
Weight	5.77 oz
Temperature	-55°C TO +85°C
Altitude	70,000 ft
Vibration	30 Grms

#### **TYPICAL LNA PERFORMANCE**

LNA Gain	See Options Table
LNA Noise Figure	3.5 dB
LNA P1dB Out	+13 dBm
LNA DC Power	(3.8 - 15) V
	<70 mA

#### **LIMITING & FILTERING**

Power Handling 1 Watt CW
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# PART NUMBER DECODER G5ANT-2 X MN X X



Connector • S = SMA T = TNC

- 3 = Camo Green #34094
- 4 = Lusterless Black #37038
- 5 = Tan #33446

# **CONTACT ANTCOM**

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<sup>•</sup> **Color (PER AMS-STD-595)** 1 = Gloss White #17925 2 = Lusterless Gray #36320