G3ANT-53XXX ANTENNA FAMILY
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/E2 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

OPTIONS

COLOR
- Gloss White
- Lusterless Gray
- Camo Green
- Lusterless Black
- Desert Tan

CONNECTOR
- S: SMA
- T: TNC
- N: N-Bulkhead

LNA GAIN
- With LNA
- Without LNA

*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 obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.*
**ELECTRICAL**

<table>
<thead>
<tr>
<th>Frequency Range:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Band</td>
<td>1545 - 1610 MHz</td>
</tr>
<tr>
<td>B1 BeiDou</td>
<td>1561.098 ± 10 MHz</td>
</tr>
<tr>
<td>L1 GPS</td>
<td>1575.42 ± 12 MHz</td>
</tr>
<tr>
<td>E1 Galileo</td>
<td>1575.42 ± 17 MHz</td>
</tr>
<tr>
<td>L1 GLONASS</td>
<td>1609 ± 7.0 MHz</td>
</tr>
<tr>
<td>VSWR</td>
<td>&lt;2.0:1</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohms</td>
</tr>
<tr>
<td>Polarization</td>
<td>RHCP</td>
</tr>
</tbody>
</table>

**MECHANICAL & ENVIRONMENTAL**

Designed to:

- Weight: 8.87 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, <40 mA

**LIMITING & FILTERING**

- Power Handling: 1 Watt CW

**PART NUMBER DECODER**

G3Ant-53XXX

- LNA Gain: A = With LNA, P = Without LNA
- 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 = N-Bulkhead

©2020 ANTCOM CORP. ALL RIGHTS RESERVED. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.