G5ANT-2XXX ANTENNA FAMILY

Lightweight, Small Form Factor Multi-Frequency GNSS Antenna

The G5Ant-2XXX is a 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. The enclosure is small and lightweight for an easy mobile installation. The baseplate includes four threaded holes for mounting the antenna onto the platform from its bottom side.

The product family is available in passive and active (amplified) configurations. The active configurations include two-stage ceramic and surface acoustic wave (SAW) filtering for sharp band edges and linearity within the GNSS bands. The upper and lower frequency bands are separately amplified and filtered to ensure operation in high ambient interference environments. The passive configurations are best suited to applications where the antenna is positioned close to the GNSS receiver.

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

**BENEFITS**
- Multi-frequency GNSS coverage to support precision applications
- High-performance yet lightweight antenna solution

**FEATURES**
- Multi-frequency, multi-constellation for assured GNSS reception
- Small, lightweight enclosure
- Passive or active (amplified) configurations available
- DC power input through RF connector

**OPTIONS**
- **COLOR**
  - Gloss White
  - Lusterless Gray
  - Camo Green
  - Lusterless Black
  - Desert Tan
- **CONNECTOR**
  - S: SMA
  - B: BNC
  - M: MCX
  - MM: MMCX
  - N: TYPE N
  - T: TNC
- **LNA GAIN**
  - With 33 dB LNA
  - With 40 dB LNA
  - Without LNA

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ELECTRICAL

Frequency Range:

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2 GPS B2 BeiDou</td>
<td>1207.14-1217.14 MHz</td>
</tr>
<tr>
<td>L2 GLONASS</td>
<td>1252.50 ± 7.5 MHz</td>
</tr>
<tr>
<td>L-BAND B1 BeiDou</td>
<td>1561.098 ± 10 MHz</td>
</tr>
<tr>
<td>L1 GPS E1 GALILEO</td>
<td>1575.42 ± 15.0 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>
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</table>

MECHANICAL & ENVIRONMENTAL

Designed to:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Weight</td>
<td>5.5 oz (Typical)</td>
</tr>
<tr>
<td>Temperature</td>
<td>-55°C TO +85°C</td>
</tr>
<tr>
<td>Altitude</td>
<td>70,000 ft</td>
</tr>
<tr>
<td>Vibration</td>
<td>&gt;30 Grms</td>
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</tbody>
</table>

TYPICAL LNA PERFORMANCE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>LNA Gain</td>
<td>See Options Table</td>
</tr>
<tr>
<td>LNA Noise Figure</td>
<td>3.5 dB</td>
</tr>
<tr>
<td>LNA P1dB Out</td>
<td>+13 dBm</td>
</tr>
<tr>
<td>LNA DC Power</td>
<td>(3.8 - 15) V &lt;70 mA</td>
</tr>
</tbody>
</table>

LIMITING & FILTERING

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Power Handling</td>
<td>1 Watt CW</td>
</tr>
</tbody>
</table>

PART NUMBER DECODER

G5Ant-2XXX

LNA Gain
A = With 33 dB
A4 = With 40 dB
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       B = BNC
M = MCX       MM=MMCX
N = Type N     T = TNC

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