G5ANT-3XXRX ANTENNA FAMILY
FRPA Footprint Multi-Frequency GNSS Antenna with Centered Connector

The G5Ant-3XXRX 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. This product family uses the standard Fixed Reception Pattern Antenna (FRPA) mounting footprint for easy integration onto new and existing platforms. The connector is located on the center of the baseplate bottom for installations desiring minimal mounting hole sizes on the platform.

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
- Easy installation on new and existing platforms with FRPA footprint design and centered connector

**FEATURES**

- Multi-frequency, multi-constellation for assured GNSS reception
- FRPA-footprint enclosure
- Connector centered on baseplate
- 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**

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>L2 GPS</td>
<td>1227.60 ± 12 MHz</td>
</tr>
<tr>
<td>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</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 ± 15.0 MHz</td>
</tr>
<tr>
<td>E1 GALILEO</td>
<td>1575.42 ± 17.0 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>
</tr>
</tbody>
</table>

**MECHANICAL & ENVIRONMENTAL**

Designed to:

- **Weight**: 9.3 oz (Typical)
- **Temperature**: -55°C TO +85°C
- **Altitude**: 70,000 ft
- **Vibration**: >30 Grms

**TYPICAL LNA PERFORMANCE**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<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</td>
</tr>
<tr>
<td></td>
<td>&lt;70 mA</td>
</tr>
</tbody>
</table>

**LIMITING & FILTERING**

- **Power Handling**: 1 Watt CW

**PART NUMBER DECODER**

G5Ant-3XXRX

- **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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