G5ANT-3XMXX ANTENNA FAMILY
Penta-Band GNSS FRPA with Internal Magnetic Mount

The G5Ant-3XMXX is a multi-frequency antenna for assured Global Navigation Satellite Signal (GNSS) signal reception. This G5 antenna operates across five frequency bands and includes support for GLONASS L1, GPS L1 plus E1 Galileo, L-Band plus E6 Galileo and B1 BeiDou, L2 GLONASS and L2 GPS plus B2 BeiDou. This product family is designed to the standard Fixed Reception Pattern Antenna (FRPA) mounting footprint and includes magnets recess mounted into its baseplate for easy installation and testing.

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 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.

**BENEFITS**
- Easy integration and testing with FRPA footprint, magnetic mount antenna
- Quad-constellation coverage across upper & lower bands for assured GNSS reception
- L-Band support for correction services for high GNSS accuracy

**FEATURES**
- GPS, Galileo, GLONASS, BeiDou and L-Band reception
- FRPA footprint with thru-hole mount
- Recessed magnets for magnetic mount
- Passive or active (amplified) configurations available
- Active configurations offer 2-stage integrated bandpass filtering with diode limiters
- Connector options available
- Paint color options available

**OPTIONS**

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

**CONNECTOR**
- S: SMA; B: BNC
- M: MCX; MM: MMCX
- N: N, NB: N-Bulkhead
- T: TNC, TB: TNC-Bulkhead

**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>E6 Galileo</td>
<td>1561.098 ± 10 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>
</tbody>
</table>

- **VSWR**: <2.0:1
- **Impedance**: 50 ohms
- **Polarization**: RHCP

**MECHANICAL & ENVIRONMENTAL**

Designed to:

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>12.4 oz</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>
</tr>
</tbody>
</table>

**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**

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

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**PART NUMBER DECODER**

G5Ant-3XMXX

**Color (PER AMS-STD-595)**

- 1 = Gloss White #17925
- 2 = Lusterless Gray #36320
- 3 = Camo Green #34084
- 4 = Lusterless Black #37038
- 5 = Tan #33446

**Connector**

- S = SMA; B: BNC
- M = MCX; MM: MMCX
- N = N, NB: N-Bulkhead
- T = TNC, TB: TNC-Bulkhead

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**CONTACT ANTCOM**

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