The G3Ant-3XXX product family receives 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 and L-Band plus BeiDou B1. The Fixed Reception Pattern Antenna (FRPA) mounting footprint provides easy integration onto new and existing platforms. The rugged enclosure can withstand harsh environmental conditions seen in military, aerospace and other applications.

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**

- Standard FRPA mounting footprint for easy integration
- Multi-constellation GNSS coverage for assured position, navigation and timing

**FEATURES**

- GPS L1, Galileo E1/E2, GLONASS L1, Beidou B1, and L-Band support
- FRPA footprint with thru-hole mount or bottom-mount
- High filtering for out-of-band rejection
- Passive or active (amplified) configurations available
- Active configurations offer 2-stage integrated bandpass filtering with diode limiters

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

**CONNECTOR**
- SMA
- BNC
- Type N
- TNC

**LNA GAIN**
- With 33 dB LNA
- With 40 dB 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 first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.*
ELECTRICAL

Frequency Range:
- L-Band: 1545 - 1610 MHz, 1561.098 ± 10 MHz
- B1 BeiDou: 1575.42 ± 15 MHz
- E1 Galileo: 1575.42 ± 17 MHz
- L1 GLONASS: 1609 ± 7.0 MHz
- VSWR: <2.0:1
- Impedance: 50 ohms
- Polarization: RHCP

MECHANICAL & ENVIRONMENTAL

Designed to:
- Weight: 9.1 oz (Typical)
- Temperature: -55°C TO +85°C
- Altitude: 70,000 ft
- Vibration: > 30 Grms

TYPICAL LNA PERFORMANCE

<table>
<thead>
<tr>
<th>LNA Gain</th>
<th>See Options Table</th>
</tr>
</thead>
<tbody>
<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;40 mA</td>
</tr>
</tbody>
</table>

LIMITING & FILTERING

| Power Handling | 1 Watt CW |

PART NUMBER DECODER

G3Ant-3XXX

LNA Gain
- A = With 33dB LNA
- A4 = With 40dB 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 = Tan #33446

Connector
- S = SMA
- B = BNC
- N = Type N
- T = TNC