The 4G1215X-XXC-X product family is tuned for Global Positioning System (GPS) signal reception in the L1 and L2 frequency bands. This antenna has a Mini ARINC mounting footprint for easy integration onto new and existing platforms. The connector is centered on 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 GPS 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 GPS receiver.

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

**BENEFITS**
- Rugged antenna for military-grade GPS L1/L2 reception
- Mini ARINC form factor for small size & low weight
- Easy installation on new and existing platforms with centered connector design

**FEATURES**
- GPS L1/L2 with M-Code support
- Mini ARINC product footprint
- Connector centered on baseplate
- 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
  - Desert Tan
- **CONNECTOR**
  - SMA
  - TNC
  - Bulkhead TNC
  - Bulkhead N
- **LNA GAIN**
  - With 33 dB LNA
  - 33dB, High Filtering
  - With 20 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

<table>
<thead>
<tr>
<th>Frequency Range:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>L1 GPS</td>
<td>1575.42 ± 12 MHz</td>
</tr>
<tr>
<td>L2 GPS</td>
<td>1227.60 ± 12 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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MECHANICAL & ENVIRONMENTAL

Designed to:

<table>
<thead>
<tr>
<th>Weight</th>
<th>5.13 oz (Typical)</th>
</tr>
</thead>
<tbody>
<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>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>+9 dBm</td>
</tr>
<tr>
<td>LNA DC Power</td>
<td>(3.8 - 15) V &lt;70 mA</td>
</tr>
</tbody>
</table>

LIMITING & FILTERING

| Power Handling  | 1 Watt CW         |

PART NUMBER DECODER

4G1215X-XXC-X

LNA Gain
A = With 33 dB
AF = 33dB, High Filtering
A2 = With 20 dB
A4 = With 40 dB
P = Without LNA

Color (PER FED-STD-595B)
1 = Gloss White #17925
2 = Lusterless Gray #36320
3 = Camo Green #34994
4 = Lusterless Black #37038
5 = Desert Tan #33446

Connector
S = SMA
T = TNC
TB = Bulkhead TNC
N = Bulkhead N