High-accuracy Stacked Patch GNSS Antennas offer superior signal processing and GPS accuracy for high precision tracking applications such as UAVs, drones, and vehicle tracking and real time kinematic (RTK) systems

Features and Advantages

- **Low-profile design**: Afords space savings
- **Stacked-patch single feed**: Eliminates the need for a separate base station
- **Silver pin**: Positions and fixes the antenna to the PCB (via soldering); provides electrical contact between the antenna and the board
- **High-precision tracking**: Allows decimeter-level to sub-meter-level accuracies for geospatial data

Ceramic patch antenna
Delivers high-gain, high-radiation efficiency performance for the most demanding GPS applications

GPS L1/L5 & GLONASS 36mm Stacked Patch Single Feed Antenna (Series 211624)

GPS L1/L5 25mm Stacked Patch Antenna (Series 212203)

Applications

- **Automotive**
  - Navigation devices
- **Commercial Vehicles**
  - High-speed rail
- **Industrial**
  - Drones
  - Maritime port technology systems
  - Surveying and mapping systems
  - Emergency response systems

Automotive

Emergency response systems

Maritime Port Technology Systems

Drones
Specifications

REFERENCE INFORMATION
Packaging: Tray
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

ELECTRICAL
RF Power (watt): 2
Average Total Radiation Efficiency:
L5: >60% (211624), >65% (212203)
L1: >75%
GLONASS: >70% (211624)
Peak Gain:
L5: 2.1dBi (211624), 3.1dBi (212203)
L1: 4.5dBi (211624), 4.9dBi (212203)
GLONASS: 4.2dBi (211624)
Return Loss: <-10dB (211624)
L5: <-20dB, L1: <-15dB (212203)
Input Impedance (ohms): 50

MECHANICAL
Refer to Product Specifications

PHYSICAL
Housing: Ceramic
Plating: Refer to Sales Drawings
Material: Ceramic
Dimension (mm): 36.00 by 36.00 by 7.00 (211624)
25.00 by 25.00 by 8.00 (212203)
Operating Temperature: -40 to +85°C

Ordering Information

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Description</th>
<th>Mounting Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>211624</td>
<td>GPS L1/L5 and GLONASS 36mm Stacked Patch Single-Feed Antenna</td>
<td>Peel-and-stick</td>
</tr>
<tr>
<td>212203</td>
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www.molex.com/link/gnss-gps.html

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