High-accuracy Stacked Patch GNSS Antenna

molex

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

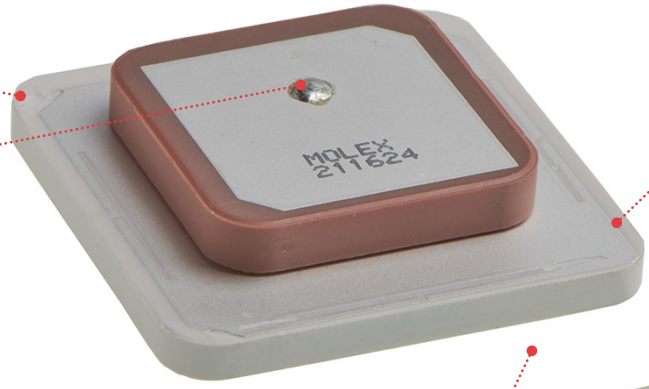
GPS L1/L5 & GLONASS 36mm
Stacked Patch Single Feed Antenna
(Series 211624)

Features and Advantages

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



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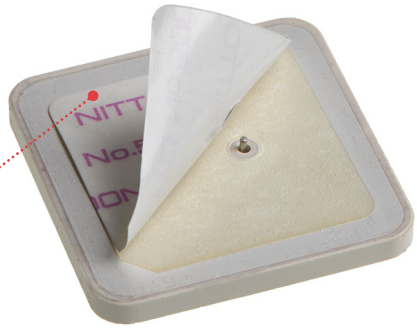
Low-profile design
Affords space savings



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

Applications

Automotive
- Navigation devices

Commercial Vehicles
- High-speed rail

Industrial
- Drones
- Maritime port technology systems
- Surveying and mapping systems
- Emergency response systems

Automotive

Drones

Maritime Port Technology Systems

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Specifications

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

ELECTRICAL
RF Power (watt): 2
Average Total Radiation Efficiency:
- L5: >60%
- L1: >75%
- GLONASS: >70%

Peak Gain:
- L5: 2.1dBi
- L1: 4.5dBi
- GLONASS: 4.2dBi

Return Loss: <-10dB
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
Operating Temperature: -40 to +85°C

Ordering Information

Series No.	Description	Mounting Style
211624	GPS L1/L5 & GLONASS 36mm Stacked Patch Single-Feed Antenna	Peel-and-stick

www.molex.com

Order No. 987652-0372 USA/0k/GF/2019.04