

High-accuracy Stacked Patch GNSS Antenna



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
Affords space savings

Silver pin
Positions and fixes the antenna to the PCB (via soldering); provides electrical contact between the antenna and the board

Stacked-patch single feed
Eliminates the need for a separate base station

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

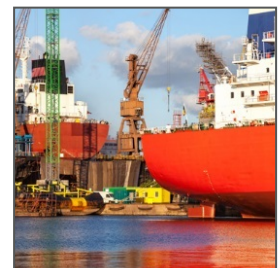
Emergency response systems



Automotive



Drones



Maritime Port Technology Systems

High-accuracy Stacked Patch GNSS Antenna



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

Series No.	Description	Mounting Style
211624	GPS L1/L5 and GLONASS 36mm Stacked Patch Single-Feed Antenna	Peel-and-stick
212203	GPS L1/L5 25mm Stacked Patch Antenna	Peel-and-stick

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