

Coach™ 4x4, Wi-Fi 6E, DSRC GNSS Multiband Antenna

Combination Antennas - Wi-Fi and GNSS

GL4X4MIMO-SF



Description

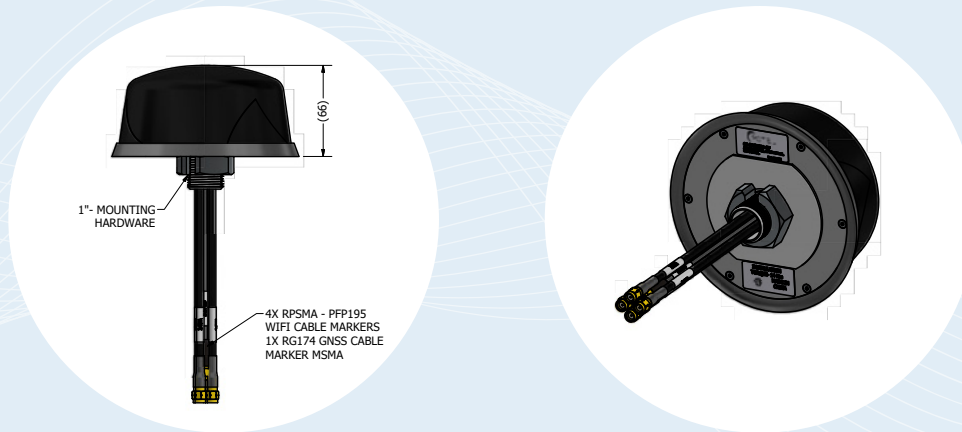
Low-profile, permanent mount antenna featuring dual-band coverage in one rugged housing

Technologies

- Wi-Fi
- GNSS

Features

- Multiband coverage (2.4-2.5 GHz/4.9-5.99 GHz frequencies)
- Dual-band integrated elements terminated with high performance, low loss RG-58/U stranded cable and high quality connectors for maximum RF system efficiency
- Proprietary filtering design allows wideband coverage for all GNSS frequencies and superior out-of-band rejection
- Metal stud mount with slotted jam nut for easy installation
- UV-resistant low-profile design
- IP67 compliant design



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The Coach™ GL4X4MIMO-SF antenna enables high data rate connectivity for ITS, DSRC and IIoT applications. This low-profile antenna supports dual-band 2.4/5 GHz MIMO for 802.11p, ac Wi-Fi standards, combining multiple antenna elements into one IP67-rated housing. A single stud mount cable exit simplifies permanent installations. The antenna also incorporates PCTEL's unique high rejection GPS/GLONASS technology for optimal performance and support of carrier voice and data networks.

Features

- Multiband coverage – 2.4-2.5 GHz and 4.9-5.99 GHz frequencies
- Maximum RF system efficiency – Dual-band integrated elements terminated with high performance, low loss RG-58/U stranded cable and high quality connectors
- Superior out-of-band rejection – Proprietary filtering design allows wideband coverage for all GNSS frequencies
- Easy installation and/or replacement – Metal stud mount with slotted jam nut provides single cable exit
- Adaptable – UV-resistant low-profile design allows for installation without antenna orientation restrictions
- Withstands severe environmental conditions –IP67 compliant design with custom overmolded gasket protects against water or dust ingress

Applications

- Intelligent Transportation Systems (ITS)
- DSRC
- IIoT

Certifications



Coach™ 4x4, Wi-Fi 6E, DSRC GNSS

Multiband Antenna

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Standard Configurations

Model Number	Elements	Cable Type	Connector Type	Mount
GL4X4MIMO-SF	4 (Wi-Fi)	Four (4) 17-foot Pro-Flex™ Plus 195 stranded cable leads	Reverse Polarity SMA Male	1-inch hole (25.4 mm) slotted stud mount with 3/4-16 UNF slotted hex-nut
	1 (GNSS)	One (1) 17-foot RG-174/U cable	SMA-Male	

Electrical Specifications – RF Antenna

Frequency Ranges	Nominal Gain ¹	VSWR ²	Polarization	In-Band Isolation Between Elements	E-Plane Beamwidth	Maximum Power
2.4-2.5 GHz	4 dBi	2.5	Vertical, linear	23 dB	30°	25 watts
4.9-5.99 GHz	4 dBi	1.9		26 dB	25°	

Electrical Specifications – GNSS Antenna

Specification	Measurement
Frequency Band	1565-1608 MHz
Amplifier Gain	@ 3.0 VDC: 26 dB (typical)
Output VSWR	2.0:1 (maximum)
DC Current	25 mA (typical)
DC Voltage	2.8-6.0 V (operating) ≤ 12.0 V (survivability)
Noise Figure	< 2.0 dB (typical)
Out-of-Band Rejection	f0 = 1586 MHz f0 ± 50 MHz: ≥ 60 dBc f0 ± 60 MHz: ≥ 70 dBc
Nominal Gain	3 dBic @ 90° -2 dBic @ 20°
Polarization	Right hand circular
Nominal Impedance	50 ohms

Mechanical and Environmental Specifications

All Models

Dimensions	5.4 x 2.7 in (137 x 67 mm)
Housing Material	Black, UV-Stable Rugged Thermoplastics
Temperature Range	-40°C to +80°C
Ingress Protection ³	IP67

¹ Measured with 6 ft. cables, no ground plane for a typical sample.

² Measured with 17-ft cables and no ground plane for a typical sample.

³ When installed on rooftop surface, according to PCTEL installation instructions.

CONTACT US

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this product contact your
sales representative or visit
> pctel.com/antenna-products**

Solving Complex Wireless Challenges

PCTEL, an Amphenol company, is a leading global provider of wireless technology solutions, including purpose-built antenna systems and test and measurement products. Trusted by our customers for decades, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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