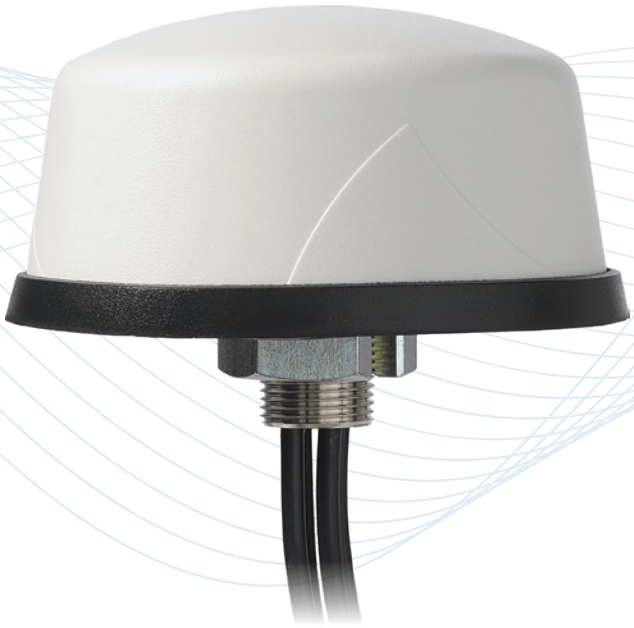
DATASHEET COMBINATION ANTENNAS

Coach™ WiFi 6E Multiband MIMO Antennas for Permanent Mount Applications

Combination Antennas – Cellular, WiFi 6E

PCTHPMIMO-3-SF, PCTHPMIMO-2-SF



Description

Combination permanent mount antenna provides high data rate connectivity for mobile applications

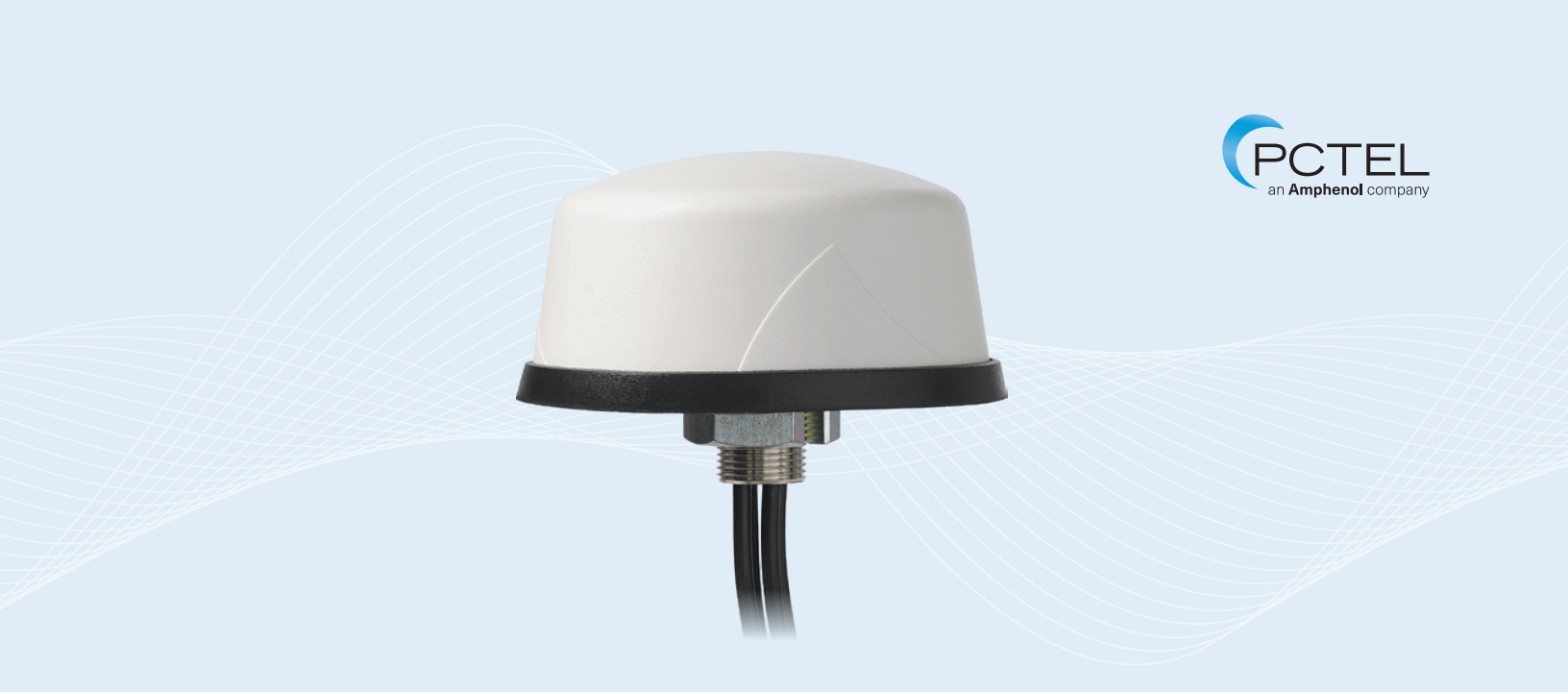
Technologies

- 4G/5G LTE MIMO Cellular
- WiFi 6E

Features

- No tune, multiband coverage
- Easy installation using metal stud mount
- UV-resistant white or black housing options
- Uses high performance, low loss cable and high quality connectors
- IP67 compliant design provides maximum protection against water or dust ingress

PCTEL
an **Amphenol** company



Coach™ WiFi 6E Multiband MIMO Antennas for Permanent Mount Applications

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The low-profile, permanent mount Coach™ PCTHPMIMO-SF platform antennas enable high data rate connectivity for fleet, rail, mass transit, public safety, and M2M applications. The platform combines multiple antenna elements to deliver multiband coverage in one IP67-rated housing. A single stud mount cable exit simplifies installation.

Features

- Multiband coverage – 2.3-2.8 GHz and 4.9-5.9 GHz frequencies
- Maximum RF system efficiency – Dual-band integrated elements are terminated with high performance, low loss RG-58/U stranded cable and high quality connectors
- Ease of installation and replacement – Metal stud mount with slotted jam nut provides single cable exit
- Low profile – for maximum installation flexibility
- Withstands severe environmental conditions – IP67 compliant design protects against water or dust ingress
- Selection – UV-resistant white or black housing

Applications

- Fleet
- Rail
- Mass transit
- Public safety
- M2M

Certifications

RoHS COMPLIANT

SPECIFICATIONS

Coach™ WiFi 6E Multiband MIMO Antennas for Permanent Mount Applications

Combination Antennas – Cellular, WiFi 6E

Standard Configurations

Model	MIMO Elements	Cable	Connector[2]	Mount
PCTHPMIMO-3-SF	3	Three (3) 17-foot PRG-58 (DBL) stranded cable leads	Reverse Polarity SMA Male	1-inch hole (25.4 mm) slotted stud mount with 3/4-16 UNF slotted hex-nut
PCTHPMIMO-2-SF	2	Two (2) 17-foot RG-58 (DBL) stranded cable leads	Reverse Polarity SMA Male	1-inch hole (25.4 mm) slotted stud mount with 3/4-16 UNF slotted hex-nut

Electrical Specifications – RF Antennas

Model	Frequancy Ranges	Gain[1]	VSWR	In-Band Isolation Between Elements	E-Plane Beamwidth	Polarization	Max. Power
PCTHPMIMO-3-SF	2.3-2.8 GHz 4.9-5.9 GHz	1.5 dBi 0.5 dBi	< 1.8:1	23 dB 26 dB	30° 25°	Vertical, linear	25 watts
PCTHPMIMO-2-SF	2.3-2.8 GHz 4.9-5.9 GHz	1.5 dBi 0.5 dBi	< 1.8:1	23 dB 26 dB	30° 25°		

Mechanical and Environmental Specifications (All Models)

Specification	Measurement
Dimensions	5.4 OD x 2.7 in H (137 x 67 mm)
Housing Material	White UV-Stable Rugged Thermoplastics[3]
Temperature Range	-40°C to +80°C
Ingress Protection	IP67[2]

[1] Measured at the end of the coax.
[2] When properly installed on rooftop surface, according to PCTEL installation instructions
[3] Black radome option available. Add "B" prefix to part number for black radome option.

CONTACT US

For more information about 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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T: +1 630 372 6800 | pctel.com

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