

Coach™ Multi-Band MIMO Antennas for 802.11ac Permanent Mount Applications

The PCTHPMIMO-SF platform enables high data rate connectivity for fleet, rail, mass transit, public safety, and M2M applications. Each low-profile antenna model supports dual-band 2.4/5 GHz MIMO for 802.11n and 802.11ac WLAN standards, combining multiple antenna elements into one IP67-rated housing. A single stud mount cable exit simplifies permanent installations. Black or white radome options are available. This platform is also available in magnetic mount configurations.

Features

- Multi-band coverage of 2.3-2.8 GHz and 4.9-5.9 GHz frequencies
- Dual-band integrated elements terminated with high performance, low loss RG-58/U stranded cable and high quality connector for maximum RF system efficiency
- Metal stud mount with slotted jam nut provides single cable exit for easier installation and/or antenna replacement
- Attractive low-profile design for maximum installation flexibility without antenna orientation restrictions
- IP67 compliant design with custom overmolded gasket provides maximum protection against water or dust ingress under severe environmental conditions**
- UV-resistant black or white housing options complement most vehicular aesthetic requirements



PCTHPMIMO-6-SF



PCTHPMIMO-4-SF

STANDARD CONFIGURATION

Model	Cable	Connector	Mount	MIMO Elements
PCTHPMIMO-6-SF	Six (6) 17-foot RG-316 cable leads	Reverse Polarity SMA Male	1-inch hole (25.4 mm) slotted stud mount with 3/4-16 UNF slotted hex-nut	6
PCTHPMIMO-4-SF	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	4
PCTHPMIMO-3-SF	Three (3) 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	3
PCTHPMIMO-2-SF	Two (2) 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	2

ELECTRICAL SPECIFICATIONS

Model	Frequency Range	Gain*	VSWR	Polarization	In-Band Isolation Between Elements	E-Plane Beamwidth	Maximum Power
PCTHPMIMO-6-SF	2.3-2.8 GHz / 4.9-5.9 GHz	1.5 dBi / 0.5 dBi	< 2.0:1	Vertical, linear	23 dB, 26 dB	30°, 25°	25 watts
PCTHPMIMO-4-SF	2.3-2.8 GHz / 4.9-5.9 GHz	1.5 dBi / 0.5 dBi	< 1.8:1	Vertical, linear	23 dB, 26 dB	30°, 25°	25 watts
PCTHPMIMO-3-SF	2.3-2.8 GHz / 4.9-5.9 GHz	1.5 dBi / 0.5 dBi	< 1.8:1	Vertical, linear	23 dB, 26 dB	30°, 25°	25 watts
PCTHPMIMO-2-SF	2.3-2.8 GHz / 4.9-5.9 GHz	1.5 dBi / 0.5 dBi	< 1.8:1	Vertical, linear	23 dB, 26 dB	30°, 25°	25 watts

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

Model	Dimensions	Radome & Baseplate Construction	Temperature Range	Ingress Protection
PCTHPMIMO-6-SF	5.3 x 3.5 in (136.5 x 89.7 mm)	White UV-Stable Rugged Thermoplastics***	-40° to +80° C	IP67**
PCTHPMIMO-4-SF	5.4 x 2.7 in (137 x 67 mm)	White UV-Stable Rugged Thermoplastics***	-40° to +80° C	IP67**
PCTHPMIMO-3-SF	5.4 x 2.7 in (137 x 67 mm)	White UV-Stable Rugged Thermoplastics***	-40° to +80° C	IP67**
PCTHPMIMO-2-SF	5.4 x 2.7 in (137 x 67 mm)	White UV-Stable Rugged Thermoplastics***	-40° to +80° C	IP67**

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