

MPAMB Series Portable Omnidirectional Antennas

The MPAMB portable antennas are designed for indoor wireless applications requiring multiple band coverage. Each rugged antenna features a compact “blade” style design and 0-90° articulating knuckle. A no knuckle model is also available.

Features

- Multi-band performance.
- Ground plane independent design provides added installation flexibility.
- Rugged polycarbonate housing provides added durability for use in demanding wireless environments.
- Articulating knuckle provides 0°-90° pivot and 180° swivel movement allowing vertical orientation of the antenna, regardless of the orientation or position of the wireless device. (All models, except MPAMB806217ONKMSMA.)



MPAMB series with knuckle

Electrical Specifications

Model	Frequency Range	Gain
MPAMB8062170	806-960 MHz / 1.71-2.17 GHz	0 dBi (all frequencies)
MPAMB8062170NKMSMA	806-960 MHz / 1.71-2.17 GHz	0 dBi (all frequencies)
BMPAMB8062170RPTNC	806-960 MHz / 1.71-2.17 GHz	0 dBi (all frequencies)
MPAMB24495804	2.4-2.5 GHz / 4.94 - 5.85 GHz	2.14 dBi / 4 dBi
MPAMB515804	5.15 - 5.85 GHz	3 dBi (all frequencies)



MPAMB8062170NK



Technical Data

Maximum Power: 5 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR: < 2.0:1
Connector Type: TNC male (MPAMB8062170 only) Male SMA (MPAMB8062170NKMSMA only) Reverse Polarity TNC (All other models)

For detailed specifications, visit <http://antenna.pctel.com>.

Mechanical Specifications

Model	Antenna Height	Temperature Range	Knuckle Movement	Color
MPAMB8062170	7-5/8" (19.4 cm)	-30°C to +70°C	180° swivel, 0°-90° knuckle	Gray
MPAMB8062170NKMSMA	6.5" (16.5 cm)	-40°C to +85°C	n/a	Gray
BMPAMB8062170RPTNC	7-5/8" (19.4 cm)	-30°C to +70°C	180° swivel, 0°-90° knuckle	Black
MPAMB24495804	6" (15.2 cm)	-40°C to +85°C	180° swivel, 0°-90° knuckle	Black
MPAMB515804	5.3" (13.4 cm)	-40°C to +85°C	180° swivel, 0°-90° knuckle	Black



MEXR902TN MEXE902RPSM



Technical Data

General Specifications: Portable Antennas
Special Features: 360° swivel, 0°-90° knuckle (all models except MEXE902RPSM)
Maximum Power: 50 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR at Resonance: < 1.5:1
Wave Length: 1/2 wave 1/4 wave (MEXE902RPSM only)

Portable Antennas for Data Transfer Applications

These portable rubber duck antennas are designed to cover multiple data frequencies, including 902-928 MHz ISM, 2400-2483.5 MHz and 5725-5825 MHz Wi-Fi applications. Their rugged, flexible design makes them suitable for use in a wide variety of applications, including office LAN environments, factory floors, remote telemetry and other harsh environments.

Features

- Ground plane independent, half-wave coaxial dipole design. Provides improved antenna performance, higher gain and installation flexibility.
- Flexible design provides added durability that allows use in demanding wireless environments.
- Articulating knuckle provides 0°-90° pivot and 180° swivel movement allowing vertical orientation of the antenna, regardless of the orientation or position of the wireless device. (All models except MEXE902RPSM).

Antenna Electrical Specifications

Model	Frequency Range	Factory Tuned Frequency	Gain
MEXE902RPSM	902-960 MHz	915 MHz	2.0 dBi
MEXR902TN	902-960 MHz	915 MHz	2.5 dBi
MHWS2400MSMA	2.4-2.4835 GHz	2450 MHz	2.0 dBi
MHWS2400MTNCRP	2.4-2.4835 GHz	2450 MHz	2.0 dBi

Mechanical Specifications

Model	Connector Type	Antenna Height	Temperature Range
MEXE902RPSM	Reverse Polarity SMA Plug	9.5" (241.3 mm)	-40°C to +85°C
MEXR902TN	TNC Plug	9.5 (241.3 mm)	-40°C to +85°C
MHWS2400MSMA	SMA Plug	4.5" (114.3 mm)	-40°C to +85°C
MHWS2400MTNCRP	Reverse Polarity TNC Plug	5.7" (144.8 mm)	-40°C to +85°C

For detailed specifications, visit <http://antenna.pctel.com>.

Wideband/Multi-band Portable Gain Antennas

These wideband/multi-band portable antennas are designed for various broadband wireless applications. Their rugged, flexible design makes them suitable for use in a wide variety of applications, including office LAN environments, factory floors, remote telemetry and other harsh environments.

Features

- Wideband/multi-band coverage with no field tuning reduces number of antennas required at installation site
- High gain performance
- Ground plane independent design for added installation flexibility
- Flexible design provides added durability
- Articulating knuckle provides 0°-90° pivot and 180° swivel movement allowing vertical orientation of the antenna



Antenna Electrical Specifications

Model	Frequency Range	E-plane Beamwidth	Gain
MHWS240007RPMSMA	2.4-2.5 GHz	40°	9 dBi
MHWS240007RPC	2.4-2.5 GHz	40°	9 dBi
MHWS24495803RPMSMA	2.4-2.5 GHz and 4.9-5.8 GHz	40°/35°	3 dBi

Mechanical Specifications

Model	Antenna Height	Connector Type	Temperature Range
MHWS240007RPMSMA	Approximately 15"	Reverse Polarity SMA Plug	-40°C to +85°C
MHWS240007RPC	Approximately 15"	Reverse Polarity TNC Plug	-40°C to +85°C
MHWS24495803RPMSMA	Approximately 8"	Reverse Polarity SMA Plug	-40°C to +85°C



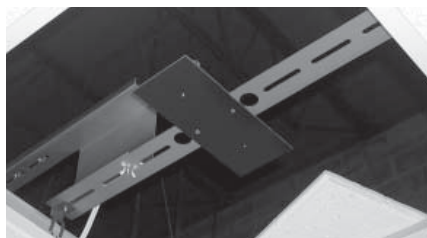
Technical Data

General Specifications: Portable Omnidirectional Antenna
Maximum Power: 50 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR: < 2.0:1
Wave Length: 1/2 wave (MHWS24007) 1/4 wave (MHWS24495803)

For detailed specifications, visit <http://antenna.pctel.com>.



UFDD24580303PT



UFODAP1200 installed above ceiling

Above Ceiling Mount Diversity Omnidirectional Antennas

These ultra-flat dual band antennas are designed for above ceiling mount spatial diversity installations. They are terminated with 3 ft. Plenum rated pigtails that can be fitted with various types of connectors. An above ceiling mount MACM (sold separately) is designed to keep the antenna out-of-sight.

Features

- Efficient omnidirectional diversity performance. Provides the excellent performance of two or four omnidirectional antennas in a single low profile design.
- Above ceiling mount (sold separately) makes antenna invisible to occupied areas.
- Utilizes UL94-V0 materials that provide UL's high flame retardant ratings for maximum placement flexibility.
- Plenum rated cable can be installed in many indoor mounting locations.



Technical Data

Maximum Power Input: 25 watts 20 watts (UFOD24003PT only)
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR: < 2.0:1
Radome Housing: No radome
Mounting Method: Adjustable mounting bracket for suspended above ceiling installations (sold separately as part #MACM)
Cable: Four 3 ft Plenum rated RG-58/U (UFDD24580303PT only) Two 3 ft Plenum RG-58/U (UFODAP1200 and UFOD24003)
Connector Options: (add connector part number after the PT prefix) Example: UFOD24003PTNF (model UFOD24003 with N, female connector) N female (part #NF) Reverse Polarity TNC (part #RPC) Reverse Polarity SMA Plug (part #RPMSMA)

Antenna Electrical Specifications

Model	Frequency Ranges	Nominal Gain	Isolation Between Antennas	Horizontal Beamwidth	Vertical Beamwidth
UFOD24003PT	2.4-2.5 GHz	3 dBi	> 25 dB	360°	55°
UFODAP1200*	2.4-2.5 GHz	3 dBi	> 25 dB	360°	55°
UFDD24580303PT	2.4-2.5 GHz	3 dBi	> 25 dB	360°	55°
	4.9-5.9 GHz	3 dBi	> 25 dB	360°	40°

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range
UFOD24003PT	5" L x 10" W x 0.12" H (12.7 x 25.4 x 0.32 cm)	0.5 lbs (0.23 kg)	-40°C to +70°C
UFODAP1200*	36" L x 9" W x 9" H (assembled)	3.5 lbs (1.59 kg)	-40°C to +70°C
	26.5" L x 8.5" W x 3" H (shipped)		
UFDD24580303PT	9" L x 9" W x 1/8" D	0.75 lbs	-40°C to +70°C

For detailed specifications, visit <http://antenna.pctel.com>.

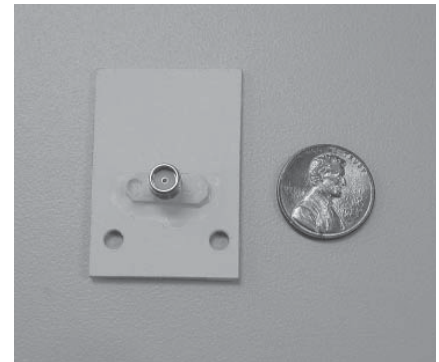
* This model is a UFOD24003PTRPC and includes MACMAP above ceiling bracket for Cisco AP1200 access points.

MCM124003FSMA -Miniature Ceiling Mount Antenna

The MCM124003FSMA miniature ceiling mount omnidirectional antenna provides wideband coverage of frequencies from 2.4 to 2.5 GHz without tuning. This antenna's minute housing is designed for minimum visibility in ceiling mount in-building installations.

Features

- Miniature design is virtually invisible for indoor installations with strict aesthetic requirements
- Made of UL94-V0 materials that conform to UL's high flame retardant ratings for maximum placement flexibility
- Simple screw mount installation
- Excellent gain performance with a low VSWR



Antenna Electrical Specifications

Model	Frequency Range	Gain	E-plane Beamwidth	H-plane Beamwidth
MCM124003FSMA	2.4-2.5 GHz	3 dBi	70°	360°

Mechanical Specifications

Model	Dimension	Weight	Temperature
MCM124003FSMA	1.13" x 1.65" (2.87 x 4.19 cm)	0.2 oz 0.005 kg	-40°C to +80°C

Technical Data

Maximum Power: 10 watts
Polarization: Vertical, linear
VSWR: < 1.5:1
Nominal Impedance: 50 ohms
Connector: Female SMA (part # FSMA)
Mounting Method: Holes are provided for mounting to a flat ceiling with plastic screws (screws included)

For detailed specifications, visit <http://antenna.pctel.com>.



MCD2400PT



Technical Data

Maximum Power Input: 50 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR: < 1.5:1
Radome Housing: UL listed plastic
Mounting Method: Dual stud mount. Above ceiling tile mounting bracket is available for applications requiring no visibility of the antenna (sold separately). Side cable exit adapter for solid ceiling mounting (included).
Cable: Dual 12" (30.5 cm) Plenum RG-58/U CL2P MCD2400PT36 includes two 36" (91.4 cm) Plenum RG-58/U CL2P pigtails
Connector Options: (add connector part number after the PT prefix) Example: MCD2400PTNF (model MCD2400PT with N, female connector) N female (part #NF) Reverse Polarity TNC (part #RPC) Reverse Polarity Male SMA (part #RPSMA)

For detailed specifications, visit <http://antenna.pctel.com>.

Ceiling Mount Omnidirectional Diversity Antenna

The MCD2400PT combines two flat ceiling mount omnidirectional antennas in a single housing for efficient spatial diversity installations. This antenna is designed to cover frequencies from 2400 to 2485 MHz with a VSWR of less than 1.5:1 and an isolation between two elements of more than 20 dB. A dual stud drop ceiling mount makes for effortless installation. The antenna includes pigtails that can be terminated with various types of connector options.

Features

- Efficient omnidirectional diversity performance. Provides the excellent performance of two omnidirectional antennas in a single low profile housing.
- Attractive, low profile housing. Blends well in office environments and other locations where aesthetic considerations are important.
- UL listed materials and cable. Meets strict safety specifications.
- Dual stud drop ceiling mount. Easy to install on standard ceiling tiles or solid ceiling surfaces.
- Includes side cable exit adapter for solid ceiling mounting.

Antenna Electrical Specifications

Model	Frequency Range	Nominal Gain	Isolation	Horizontal Beamwidth	Vertical Beamwidth
MCD2400PT	2.4-2.485 GHz	2.5 dBi	> 20 dB	360°	40°
MCD2400PT36	2.4-2.485 GHz	2.2 dBi	> 20 dB	360°	40°

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range
MCD2400PT	4.25" W x 8.5" L x 0.5" H (10.8 x 21.59 x 1.27 cm)	1 lb (0.45 kg)	-40°C to +80°C
MCD2400PT36	4.25" W x 8.5" L x 0.5" H (10.8 x 21.59 x 1.27 cm)	1 lb (0.45 kg)	-40°C to +80°C

Ceiling Mount Omnidirectional Antennas

The MC series of antennas provide a low profile ceiling mount solution for indoor applications requiring maximum performance with minimum visibility.

They include a Plenum rated pigtail that can be fitted with a wide variety of connector options. They can be easily mounted to drop ceiling tiles or to a solid ceiling surface where cable routing access is available.

Features

- Attractive, low profile housing. Blends well in office environments and other locations where aesthetic considerations are important.
- UL listed materials and cable. Meets strict safety specifications.
- Single hole stud mount or optional side cable exit option. Easy to install on standard ceiling tiles or solid ceiling surfaces.
- Includes side cable exit adapter for solid ceiling mounting.
- Excellent value: superior performance at a competitive price.

Antenna Electrical Specifications

Model	Frequency Range	Gain
MC2400PT*	2.3-2.5 GHz	2.5 dBi
MC24580304PT	2.4-2.48 GHz / 4.94-5.85 GHz	3 dBi / 4 dBi
MC4900PT	4.9-5.8 GHz	2.5 dBi

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range	Cable
MC2400PT*	4.25" OD x 0.5" D 10.8 x 1.27 cm	8 oz. (0.23 kg)	-40°C to +80°C	12" (30.5 cm) Plenum RG-58/U
MC24580304PT	4.25" OD x 0.5" D 10.8 x 1.27 cm	10 oz. (0.28 kg)	-40°C to +80°C	18" (45.75 cm) Plenum RG-58/U
MC4900PT	4.25" OD x 0.5" D 10.8 x 1.27 cm	10 oz. (0.28 kg)	-40°C to +80°C	18" (45.75 cm) Plenum RG-58/U



The MC antennas are available for various frequency ranges



Technical Data

Maximum Power Input: 50 watts 25 watts (MC24580304PT only)
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR across the Band: < 2.0:1
Radome Housing: UL listed plastic
Connector Options: (add connector part number after the PT prefix) Example: MC2400PTNF (Model MC2400PT with N, female connector) N, Female (part #NF) Female SMA (part #FSMA) Reverse Polarity Male SMA (part #MSMARP) Reverse Polarity TNC Plug (part #MRPC)
Mounting Method: Stud mount, single hole. Includes side cable exit adapter for solid ceiling mounting. Above ceiling tile mounting bracket is available for applications requiring no visibility of the antenna (sold separately as part #MACM).

For detailed specifications, visit <http://antenna.pctel.com>.

* This model also available with a 36 inch pigtail and Reverse Polarity TNC plug (Model MC2400PT36RPC)



MLPC Series, MLPCDB800/1900S



UHF Model



Technical Data

Maximum Power Input: 150 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR: < 2.0:1
Mounting Method: Off-white ceiling-mounted P.A. speaker baffle
Cable: Purchase cable assembly separately

Low Profile Ceiling Mount Omnidirectional Antennas

The MLPC low profile ceiling mount antennas provide superior pattern coverage for ceiling mount applications using UHF, 800/900 MHz, PCS and WLAN frequencies. They are designed to provide industry leading wideband performance and reliability, with minimum loss and no tuning required. The innovative design of this series comprises an attractive low profile antenna installed on a standard ceiling mount public address (P.A.) speaker baffle that provides a built-in ground plane, and complements the decor in most in-building applications. They come standard with an N, female bulkhead connector, but a 12" ML195 pigtail option is also available.

Features

- Wideband coverage. No tuning is required.
- Built-in ground plane. Can be installed on any ceiling tile location without the need to provide a ground plane.
- Attractive low profile. These antennas easily complement the decor in most in-building locations.
- Excellent pattern coverage, outstanding performance and reliability.

Antenna Electrical Specifications

Model	Frequency Range	Gain
MLPC406	406-430 MHz	Unity
MLPC450	450-470 MHz	Unity
MLPC700	740-870 MHz	3.0 dBi
MLPC800	806-960 MHz	3.0 dBi
MLPCDB800/1900	806-960 MHz and 1.7-2.5 MHz	2.0 dBi (at 800 MHz) 3.5 dBi (at 1900-2500 MHz)
MLPC1700	1.7-2.5 MHz	3.5 dBi

Mechanical Specifications

Model	Connector	Dimensions	Weight (Mass)	Temperature Range
MLPC406	N, female	12.87" OD x 3.63" H	0.5 lbs (0.23 kg)	-40°C to +85°C
MLPC450	N, female	12.87" OD x 3.63" H	0.5 lbs (0.23 kg)	-40°C to +85°C
MLPC700	N, female	12.87" OD x 2.75" H (32.7 x 6.98 cm)	0.5 lbs (0.23 kg)	-40°C to +85°C
MLPC800	N, female	12.87" OD x 2.75" H (32.7 x 6.98 cm)	0.5 lbs (0.23 kg)	-40°C to +85°C
MLPCDB800/1900	N, female	12.87" OD x 1.87" H (32.7 x 4.76 cm)	0.5 lbs (0.23 kg)	-40°C to +85°C
MLPC1700	N, female	12.87" OD x 1.87" H (32.7 x 4.76 cm)	0.5 lbs (0.23 kg)	-40°C to +85°C

Ceiling Mount Bi-directional Antennas

The MHA bi-directional indoor antennas are designed for minimum visibility and efficient bi-directional coverage of Wi-Fi and 4.9 GHz Public Safety frequencies. These antennas include a Plenum rated pigtail that can be terminated with various connector options. Their discrete, bi-directional design makes them ideal for use in hallways and corridors in many types of applications requiring extended wireless coverage in opposite directions.

Features

- Point-to-point, bi-directional design. Provides extended wireless coverage in two directions. Ideal for use in long corridors where a more targeted radiated signal is necessary to achieve adequate coverage.
- Attractive, low profile housing. Blends well in office environments and other locations where aesthetic considerations are important.
- UL listed materials and cable. Meets strict UL safety specifications.
- Mounting bracket clips to standard one inch wide suspended ceiling tile rails. Holes provided for screw ceiling mounting (screws not provided).



MHA Antenna



Antenna Electrical Specifications

Model	Frequency Range	Gain	Horizontal Beamwidth	Vertical Beamwidth
MHA2400PT	2.3-2.5 GHz	4 dBi	100°	75°
MHA24580406PTNF	2.4-2.48 GHz/ 4.94-5.85 GHz	4 dBi / 6 dBi	70° / 55°	70° / 55°

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range	Cable
MHA2400PT	3" W x 2.5" H x 0.45" D (7.6 x 6.35 x 1.14 cm)	2.6 oz (0.07 kg)	-40°C to +71°C	12" (15.2 cm) Plenum RG-58/U
MHA24580406PTNF	3" W x 2.5" H x 0.45" D (7.6 x 6.35 x 1.14 cm)	2.6 oz (0.07 kg)	-40°C to +70°C	18" (45.72 cm) Plenum RG-58/U



Technical Data

Maximum Power Input: 10 watts (MHA2400PT) 25 watts (MHA24580406PT)
Polarization: Vertical
Nominal Impedance: 50 ohms
VSWR: < 2.0:1
Radome Material: UL 94-V0 plastic
Connector Options: (add connector part number after the PT prefix) Male N (part #NF) Male SMA (part #MSMA) TNC, Male (part #C) Reverse Polarity TNC (part #RPTNC) Reverse Polarity SMA Plug (part #RPMSMA)
Mounting Method: Mounting bracket clips to standard one inch wide suspended ceiling tile rails. Holes are provided for mounting to a flat ceiling with screws (not included).

For detailed specifications,
visit <http://antenna.pctel.com>.

Ceiling Mount Omnidirectional Antennas



MCO24005PT

Wi-Fi Ceiling Mount Omnidirectional Antennas

These antennas are designed to cover frequencies from 2400 to 2485 MHz with a VSWR of less than 2.0:1. The broad elevation plane radiation pattern has been shaped to direct energy where it is needed, while suppressing the misdirected upper and lower sidelobe energy. The result is excellent coverage for a variety of in-building applications.

Features

- Optimized radiation pattern focuses energy where it is needed while suppressing upper and lower sidelobe energy.
- UL Plenum rated RG-58/U coax cable and UL94-V0 radome. Meet strict safety specifications.
- Include a 1/4-20" insert that allows clipping to standard ceiling rails for simple in-building installations.



Technical Data

Maximum Power: 5 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR: <2.0:1
Radome Material: UL94-V0 plastic
Wind Survival: 125 mph
Cable: 12" (30.5 cm) RG-58/U (MCO24005PT) 36" (91.5 cm) RG-58/U (MCO24005PT36)
Connector Options: (add connector part number after the PT prefix) BNC, Male (part #BN) N, Female (part #NF) N, Male (part #NM) Male SMA (part #MSMA) Reverse Polarity SMA Plug (part #RPMSMA) Reverse Polarity TNC Plug (part #RPC) Reverse Polarity BNC (part #RPBN)
Mounting Method: 1/4-20 insert for clipping to a ceiling tile rail

Antenna Electrical Specifications

Model	Frequency Range	Gain	Horizontal Beamwidth	Vertical Beamwidth
MCO24005PT	2.42-485 GHz	5.5 dBi	360°	32°
MCO24005PT36	2.42-485 GHz	5.2 dBi	360°	32°

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range
MCO24005PT	9.8" L x 1.0" OD (24.8 x 2.54 cm)	8 oz. (0.23 kg)	-30°C to 75°C
MCO24005PT36	9.8" L x 1.0" OD (24.8 x 2.54 cm)	8 oz. (0.23 kg)	-30°C to 75°C

For detailed specifications, visit <http://antenna.pctel.com>.

Multi-Band Dual Diversity Directional Panel Antenna

The MPDD245807PTRPC provides dual diversity coverage of 2.4-2.5 GHz and 4.9-5.9 GHz frequencies with 7 dBi gain performance. This compact directional panel antenna includes four cable terminations for use with dual band, dual diversity Wi-Fi radios. The antenna includes an adjustable wall/mast mount.

Features

- Provides the performance of two multi-band 2.4/5.8 GHz quad-band antennas in an attractive, low profile package
- UL94-V0 plastic and PC board for compliance with UL's high flame retardant standard
- Attractive, low profile housing. Blends well with indoor environments where aesthetic considerations are important
- Adjustable mounting brackets for indoor and outdoor mounting (included)

Antenna Electrical Specifications

Model	Frequency Range	Gain	3 dB Horizontal Beamwidth	3 dB Vertical Beamwidth	Typical Port to Port Isolation
MPDD245807PTRPC	2.4-2.5 GHz/	7 dBi	90°	60°	25 dB
	4.9-5.9 GHz	7 dBi	85°	60°	30 dB

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range	Wind Loading (frontal) @100 mph Wind
MPDD245807PTRPC	5.1" x 4.7" x 1.5" (12.0 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	-40°C to +70°C	9.3 lbs



MPDD245807PTRPC



Technical Data

Maximum Power Input: 20 watts
Polarization: Linear, vertical
Nominal Impedance: 50 ohms
VSWR: < 1.5:1 (2.4 GHz) < 2.0:1 (5.0 GHz)
Front-to-Back Ratio: > 15 dB
Radome Housing: UL94-V0 plastic
Cable: Four (4) RG-58A/U, white
Connector: Reverse Polarity TNC standard Other connector options feasible
Mounting Brackets: MPAB11 short adjustable bracket for wall or pipe mount (included) MPAB12 long adjustable corner mount (sold separately)

For detailed specifications, visit <http://antenna.pctel.com>.



MPD24006XFPT on MPAB11 mount

Wi-Fi Diversity Directional Panel Antenna

The MPD24006XFPT diversity panel antenna covers 2.4 GHz frequencies with a VSWR of less than 1.5:1. This diversity antenna is designed to obtain maximum gain and performance across the band. The printed circuit design is housed in an attractive, low profile radome made with UL94-V0 materials that meet strict safety specifications.

Features

- UL94-V0 plastic and PC board. Provides UL's high flame retardant rating allowing maximum placement flexibility. Meets stringent building fire rating codes.
- Attractive, low profile housing. Blends well with indoor and outdoor environments where aesthetic considerations are important.
- Adjustable mounting brackets for indoor and outdoor mounting. Provide maximum flexibility for indoor or outdoor installations.



Technical Data

Maximum Power Input: 20 watts
Polarization: Linear, vertical
Nominal Impedance: 50 ohms
VSWR: < 1.5:1
Front-to-Back Ratio: > 15 dB
Radome Housing: UL94-V0 plastic
Cable: 36" (91 cm) RG-58/U (MPD24006XFPT) 72" (183 cm) RG-58/U (MPD24006XFPT72RPC)
Connector Options: Reverse Polarity TNC standard (part #RPC) N Female (part #NF) Reverse Polarity SMA Plug (part #RPMSMA)
Mounting Brackets (sold separately): MPAB11 short adjustable bracket for wall or pipe mount MPAB12 long adjustable corner mount

Antenna Electrical Specifications

Model	Frequency Range	Gain	3 dB Horizontal Beamwidth	3 dB Vertical Beamwidth	Typical Port to Port Isolation
MPD24006XFPT	2.3-2.5 GHz	6.5 dBi	90°	70°	20 dB
MPD24006XFPT72RPC	2.3-2.5 GHz	6.0 dBi	90°	70°	20 dB

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range	Wind Loading (frontal) @100 mph Wind
MPD24006XFPT	5.1" x 4.7" x 1.5" (12.0 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	-40°C to +70°C	9.3 lbs
MPD24006XFPT72RPC	5.1" x 4.7" x 1.5" (12.0 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	-40°C to +70°C	9.3 lbs

For detailed specifications, visit <http://antenna.pctel.com>.

Wi-Fi Wall Mount Diversity Omnidirectional Antenna

This diversity wall mounted omnidirectional antenna is designed to cover frequencies from 2400 to 2485 MHz with a VSWR of less than 2:1. The broad elevation plane radiation pattern has been shaped to direct energy where it is needed, while suppressing the misdirected upper and lower sidelobe energy. This antenna is ideal for a wide variety of indoor antenna applications.

Features

- UL listed 94-V0 plastic and Plenum rated RG-58/U cable. Meets strict safety specifications.
- Includes articulating wall mount bracket for added installation flexibility.



MDO24005PT

Antenna Electrical Specifications

Model	Frequency Range	Gain	H-plane Beamwidth	E-plane Beamwidth	Connector
MDO24005PTRPC	2.4-2.485 GHz	5.2 dBi each	360°	27°	Reverse Polarity TNC Plug

Mechanical Specifications

Model	Temperature Range	Dimensions	Weight (Mass)
MDO24005PTRPC	-30°C to 75°C	11" H x 5" W x 1" D (27.9 x 12.7 x 2.6 cm)	19 oz. (0.54 kg)



Technical Data

Power Input: 5 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR: < 2.0:1
Radome Housing: Off-White UV resistant UL94-V0 rated plastic with ecru/off-white fabric cover
Cable: Dual 36" white Plenum rated coax
Mounting Method: Universal wall and pipe adjustable mounting bracket (included)

For detailed specifications, visit <http://antenna.pctel.com>.



MP24008XFPT



MP24580809PT
on MPAB11 Mount



MP24013XFPT
on MPAB12 Corner Mount

Directional Panel Antennas

These directional panel antennas are designed to cover various frequencies with a VSWR of less than 1.5:1, obtaining maximum gain with an attractive, low-profile package. All models provide efficient and stable performance across the band and can be mounted indoors or outdoors.

Features

- PCB design. Provides best performance-to-price ratio.
- UL94-V0 plastic and PC board conform to UL's high flame retardant rating, allowing maximum placement flexibility. Meets stringent building code requirements.
- Attractive, low profile housing. Blends well with indoor and outdoor environments where aesthetic considerations are important.
- Corner exit RG-58/U pigtail design. Permits the panel to be mounted in vertical or horizontal polarity.
- Adjustable mounting brackets for indoor installation are included. Indoor corner mounting bracket and heavy duty outdoor mounting brackets are also available. These provide maximum flexibility for indoor or outdoor installations.



Technical Data

Maximum Power Input: 20 watts (25 watts for dual-band models)
Polarization: Vertical or horizontal, linear (except MP24012CPLXFPT) Left hand circular (Model MP24012CPLXFPT and MP9026CPLXFPT) Right hand circular (MP9026CPRXFPT only)
Nominal Impedance: 50 ohms
VSWR: See Electrical Specifications
Radome Material: UL94-V0 plastic
Lightning Protection: DC grounded
Cable: See Mechanical Specifications
Connector Options: N female (part #NF) is standard. Please consult factory for other connector options.
Mounting Method: Adjustable azimuth/elevation MPAB11 mount is included with 5.1" x 7.7" x 1.5" housing panels. Adjustable azimuth/elevation MPAB12 indoor corner mount is sold separately.

For detailed specifications, visit <http://antenna.pctel.com>.

Antenna Electrical Specifications

Model	Frequency Range	Gain	VSWR	3 dB Horizontal Beamwidth	3 dB Vertical Beamwidth	Front-to-Back Ratio
MP8066XFPT	806-960 MHz	8.1 dBi	< 1.5:1	70°	60°	> 17 dB
MP8906XFPT	890-960 MHz	8.6 dBi	< 1.5:1	70°	60°	> 17 dB
MP9027XFPT	902-928 MHz	9.1 dBi	< 1.5:1	65°	65°	> 17 dB
MP9026CPLXFPT	902-928 MHz	8.5 dBic	< 1.5:1	65°	65°	> 20 dB
MP9026CPRXFPT	902-928 MHz	8.5 dBic	< 1.5:1	65°	65°	> 20 dB
MPMB80621MPTC	806-960 MHz	5 dBi	< 2.0:1	70°	67°	> 15 dB
	1710-2170 MHz	7.5 dBi	< 2.0:1	75°	55°	> 20 dB
MP24008XFPT	2.3-2.5 GHz	8.5 dBi	< 1.5:1	60°	60°	> 15 dB
MP24013XFPT	2.3-2.5 GHz	13.0 dBi	< 1.5:1	35°	35°	> 18 dB
MP24580809PTNF	2.4-2.48 / 4.94-5.85 GHz	8 dBi / 9 dBi	< 2.0:1 / < 2.0:1	60° / 50°	60° / 40°	> 22 dB / > 15 dB
MP495913XFPTNF	4.9-5.9 GHz	13 dBi/ 13 dBi	<2.0:1/ <2.0:1	40°	27°	>25 dB

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range	Cable
MP8066XFP	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	-40°C to +70°C	12" RG-58/U
MP8906XFPT	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	-40°C to +70°C	12" RG-58/U
MP9027XFPT	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	-40°C to +70°C	12" RG-58/U
MP9026CPLXFPT	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	-40°C to +70°C	12" RG-58/U
MP9026CPRXFPT	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	-40°C to +70°C	12" RG-58/U
MPMB80621MPTC	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	-40°C to +70°C	3' (91.4 cm) RG-58/U
MP24008XFPT	5.1" x 4.7" x 1.5" (12.9 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	-40°C to +70°C	12" (30.5 cm) RG-58/U*
MP24013XFPT	8.8" x 8.1" x 1.6" (22.4 x 20.6 x 4.06 cm)	1.2 lbs (0.54 kg)	-40°C to +70°C	12" (30.5 cm) RG-58/U*
MP24580809PTNF	5.1" x 4.7" x 1.5" (12.9 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	-40°C to +70°C	12" (30.5 cm) Plenum Rated ML195
MP495913XFPT	5.1" x 4.7" x 1.5" (12.9 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	-40°C to +70°C	6" (15.25 cm) .141 semi-rigid*
MP495913XFPTNF	5.1" x 4.7" x 1.5" (12.9 x 11.9 x 3.8 cm)	0.5 lbs (0.23 kg)	-40°C to +70°C	12" (30.5 cm) Plenum Rated Pro-Flex™ 195, white cable

*Plenum cable optional (special order item)



The MIG antennas can be utilized for a wide variety of wireless Wi-Fi applications.

Omnidirectional Tape Mount

The MIG line of omnidirectional tape mount antennas are designed to support WiFi network applications. Their rugged design accommodates a wide variety of applications including office LAN environments, factories, remote telemetry and other harsh environments where a compact, stick-on mount antenna solution is needed. They utilize 3M® very high bond tape for quick, easy mounting.

Features

- High bond tape mount provides mounting flexibility for various applications, including computer monitors, hand held devices, cashier terminals, glass, etc.
- Rugged, ultra thin housing design withstands heavy use and provides minimum visibility.
- Can be used for fixed or mobile applications. Provides maximum flexibility and versatility.
- Ceiling tile bracket included for ceiling tile suspension (MIG2458 models only).



Technical Data

Maximum Power: 5 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
Color: Black
Connector Options: (add connector part number after the PT prefix) Example: PT72RAMMCX (Model MIG2425 with 72 inches of cable and right angle MMCX connector) Female FME with N male adapter (part #UNM) Male N (part #UN with ML100 cable) Male SMA (part #MSMA) Male TNC (part #C) Reverse Polarity TNC (part #RPC) Reverse Polarity SMA Plug (part #RPMSMA) Micro-miniature connector (part #MMCX) MCX connector (part #MCX) Right Angle MMCX (part #RAMMCX)
Mount Method (hardware included): 3M® high bond tape Ceiling mount bracket (MIG2458 only)

Antenna Electrical Specifications

Model	Frequency Range	Gain	VSWR
MIG2425	2.4-2.686 GHz	4 dBi	< 1.7:1 on glass, < 2:1 in free space
MIG24PT72	2.4-2.5 GHz	2 dBi	< 1.7:1 on glass, < 2:1 in free space
MIG2458	2.4-2.5 GHz / 5.15-5.825 GHz	0 dBi / 3 dBi	< 2:1 / < 2:1

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range	Cable
MIG2425	5.7" L x 1" W x 0.1" D (144.8 x 25.4 x 2.54 mm)	0.14 lbs (0.064 kg)	-40°C to +85°C	1.5' (457.2 mm) ML100A
MIG24PT72*	5.7" L x 1" W x 0.1" D (144.8 x 25.4 x 2.54 mm)	0.14 lbs (0.064 kg)	-40°C to +85°C	6' (1,828.8 mm) ML100A
MIG2458	5.7" L x 1" W x 0.1" D	0.14 lbs (0.064 kg)	-40°C to +85°C	6' (1,828.8 mm) ML100A



Miniature Stud Mount Omnidirectional Antenna for Wi-Fi Applications

The MMSO2300 miniature omnidirectional antenna covers frequencies from 2300-2500 MHz with a VSWR of less than 1.5:1. This ground-plane dependent antenna is designed to go virtually undetected while providing dependable Wi-Fi data throughput. It utilizes a bulkhead stud mount and hardware for secure permanent installations and includes a 3" RG-188A/U pigtail. 12 inch cable option also available.

Features

- Miniature 1.3 inch housing. Provides minimum visibility for areas prone to theft or vandalism.
- Bulkhead stud mount secures the antenna for permanent installations, reducing the probability that the antenna will be stolen.
- Excellent performance with a VSWR of less than 1.5:1 for dependable wireless data coverage in a very low profile design.

Technical Data

Maximum Power: 10 watts
Polarization: Vertical, linear
Nominal Impedance: 50 ohms
VSWR: < 1.5:1
Color: Black
Radome Housing: Delrin, UV resistant
Cable: 3" (76.2 mm) RG-188A/U flying lead (Model MMSO2300) 12" (304.8 mm) RG-188A/U coax (Model MMSO2300PT) Shorter cable options available with MMSO2300PT models.
Connector Options: For MMSO2300PT models add connector part number after the PT prefix. Example: MMSO2300PTMMCX indicates MMCX termination SMA plug (part #MSMA) Reverse Polarity TNC plug (part #RPC) MMCX (part #MMCX) Right Angle MMCX (part #RAMMCX)
Mounting Method: 1/4-28 stud mount, lock washer, jam nut and o-ring seal provided mounts to surfaces up to 0.25" thick

Antenna Electrical Specifications

Model	Frequency Range	Gain
MMSO2300	2.3-2.5 GHz	Unity
MMSO2300PT	2.3-2.5 GHz	Unity

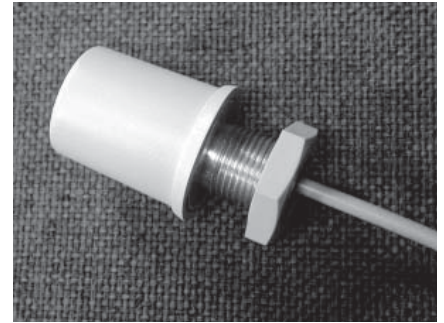
Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range
MMSO2300	1.34 " H x 0.75" OD base with 0.63" flats (34.04 x 19.05 x 16.02 mm)	0.4 oz (0.015 kg)	-30° to +80 °C
MMSO2300PT	1.34 " H x 0.75" OD base with 0.63" flats (34.04 x 19.05 x 16.02 mm)	0.4 oz (0.015 kg)	-30° to +80 °C

For detailed specifications, visit <http://antenna.pctel.com>.

Enclosure Mounted Multi-Band Low Profile Vertical Antenna

The WMLPVIDB244958PTRPC provides superior pattern coverage for fixed applications operating in 2400-2500 MHz, as well as 4900 to 5825 MHz. This design provides industry leading wideband performance and reliability, with minimum loss and no tuning required. It features an attractive, compact package that is ideal for indoor applications requiring minimum visibility.



Antenna Electrical Specifications

Model	Frequency Range	Nominal Gain	H-Plane Beamwidth	E-Plane Beamwidth
WMLPVIDB244958PTRPC	2.4-2.5 GHz/ 4.9-5.825 GHz	4 dBi/ 4 dBi	360°	35° Nominal/ 20° Nominal

Mechanical Specifications

Cable	Dimensions	Weight (Mass)
16" Plenum rated RG-58/U PL	1.75" x 1.63" OD	6.5 oz



Technical Data

General Specifications: Multi-band low profile antenna
Maximum Power: 10 watts
VSWR: < 2.0
Nominal Impedance: 50 ohms
Polarization: Vertical, linear
Radome Material: UL 94-V0 PC/ABS
Connector Options: Reverse Polarity TNC plug
Mounting Method: Through hole 15/16 dia (0.94) 7/8-14 UNF plastic Hex-Nut

For detailed specifications, visit <http://antenna.pctel.com>.