



Small housing panels are 5.1" H x 4.7" W x 1.5" D



13 dBi panel on MPAB12 corner wall mount



Small housing panel on MPAB11 wall mount



MP24018XFPT



Technical Data

General Specifications: Directional panel antennas
Maximum Power Input: See Electrical Specifications
Polarization: Linear, vertical/horizontal
Nominal Impedance: 50 ohms
VSWR: See Electrical Specifications
Radome Material: UL 94-V0 plastic
Cable: See Mechanical Specifications
Connector Options: N female (part #NF) standard. Other connector options are available. Consult factory.

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

## Directional Panel Antennas for Indoor or Outdoor Applications

These directional panel antennas are designed to cover PCS, 4.9 GHz Public Safety band, 2.4 GHz and 5.8 GHz ISM frequencies, obtaining maximum gain in an attractive, low-profile package. All models provide efficient and stable performance across their specified bands and can be mounted indoors or outdoors. Multi-band models covering public safety and 802.11a/b/g standards are available.

### Features

- Printed circuit board design provides the best performance-to-price ratio.
- UL94-V0 plastic and PC board. Provides UL's high flame retardant rating allowing maximum placement flexibility and meeting stringent building fire rating codes.
- Attractive, low profile housing. Blends well with indoor and outdoor environments where aesthetic considerations are important.
- Corner exit RG-58/U pigtail design (PCS and 2.4 GHz models), .141 semi-rigid (5.1 and 5.8 GHz models), and high performance Plenum Rated ML195 (dual band models). Permits the linear polarized panel to be mounted in vertical or horizontal polarity with a wide variety of connectors.
- Optional UL 910 rated Plenum cable. Allows the cable to be installed in any indoor mounting location, including air ducts.
- Adjustable mounting brackets for indoor and outdoor mounting. Provide maximum flexibility for indoor or outdoor installations.

### Mounting Method

Model/Mount	MPAB7	MPAB8	MPAB11	MPAB12
MP24008XFPT	N/A	N/A	included	optional
MP24013XFPT	optional	optional	optional	optional
MP24580809XFPT	N/A	N/A	N/A	optional
MP24581820PT	optional	optional	N/A	N/A
MP495913XFPT	N/A	N/A	included	optional
Mount Description	Heavy duty outdoor adjustable mount with +/-35° uptilt/downtilt. If used with MP24018XFPT the mount provides +/-18° uptilt/downtilt. Same as MPAB8 but bracket is longer.	Heavy duty outdoor adjustable mount with 17° uptilt/downtilt. If used with MP24018XFPT the mount provides +/-9° uptilt/downtilt.	Short adjustable indoor mount. It may be used outdoors with small housing panels only.	Long adjustable indoor corner mount.

## Antenna Electrical Specifications

Model	Frequency Range	Gain	3 dB Horizontal Beamwidth	3 dB Vertical Beamwidth	Front-to-Back Ratio	Max. Power Input	VSWR
MP24008XFPT	2.30-2.50 GHz	8.5 dBi	60°	60°	> 15 dB	20 watts	< 1.5:1
MP24013XFPT	2.30-2.50 GHz	13.0 dBi	35°	35°	> 18 dB	20 watts	< 1.5:1
MP24580809PT	2.40-2.48/ 4.94-5.85 GHz	8 dBi/ 9 dBi	60°/50°	60°/40°	> 22 dB/ > 15 dB	25 watts	< 2.0:1/ < 2.0:1
MP24581820PT	2.40-2.48/ 4.94-5.85 GHz	18 dBi/ 20 dBi	21°/9°	21°/9°	> 30 dB/ > 25 dB	25 watts	< 2.0:1/ < 2.0:1
MP495913XFPT	4.9-5.9 GHz	13.0 dBi	40°	27°	>25 dB	25 watts	<1.5:1

## Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range	Wind Loading (Frontal) @100 mph Wind	Cable
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	9.3 lbs	12" (30.5 cm) RG58/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	27.9 lbs	12" (30.5 cm) RG58/U**
MP24580809PT	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	9.3 lbs	12" (30.5 cm) ML195*
MP24581820PT	15.1" x 13.9" x 1.9" (38.4 x 35.3 x 4.8 cm)	3.9 lbs (1.8 kg)	-40°C to +70°C	85 lbs	12" (30.5 cm) .141 semi-rigid*
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	9.3 lbs	6" (15.25 cm) .141 semi-rigid*

\* Plenum Rated cable

\*\* UL910 Plenum Rated cable optional for these models