

## 800/900 MHz Directional Panel Antenna Series

The XtremeWave™ directional panel antennas are designed to cover 800/900 MHz 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.

**General Specifications:**  
Directional panel antennas

**Radome Material:**  
UL 94-V0 plastic

**Polarization:**  
Linear, vertical/horizontal (all models but MP9026CPLXFPT and MP9026CPRXFPT)  
Left hand circular (MP9026CPLXFPT only)  
Right hand circular (MP9026CPRXFPT only)

**Nominal Impedance:**  
50 Ohms

### Mounting Method:

| Model/Mount       | MPAB7                                                                                                        | MPAB8                                                         | MPAB11                         | MPAB12                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------|-------------------------------------------|
| All models        | optional                                                                                                     | optional                                                      | optional                       | optional                                  |
| Mount Description | Heavy duty outdoor adjustable mount with +/-35° uptilt/downtilt.<br><br>Same as MPAB8 but bracket is longer. | Heavy duty outdoor adjustable mount with 17° uptilt/downtilt. | Short adjustable indoor mount. | Long adjustable indoor wall corner mount. |

### Features and Benefits:

- Highly efficient antenna element provides high performance in an attractive, compact housing.
- UL94-V0 plastic and PC board. Provides UL's highest flame retardant rating allowing maximum placement flexibility. Meets the most stringent building fire rating codes.
- Attractive, low profile housing. Blends well with indoor and outdoor environments where aesthetic considerations are important.
- Corner exit, high performance RG-58/U pigtail design. 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 the strictest indoor mounting locations, including air ducts.
- Optional adjustable mounting brackets for indoor and outdoor mounting. Provide maximum flexibility for indoor or outdoor installations.



The XtremeWave™ directional panels feature a UV resistant, UL94-V0 plastic housing that meets UL's highest flame retardant rating for maximum placement flexibility. These panels meet stringent building fire rating codes for in-building installations, and can also be safely installed outdoors.

Product shown with optional MPAB12 long adjustable indoor wall corner mount (above) and optional MPAB8 heavy duty adjustable outdoor mast mount.



# Specifications

## Electrical Specifications

| Model #       | Frequency Range | Gain     | Front-to-Back Ratio | 3 dB Horizontal Beamwidth | 3 dB Vertical Beamwidth | VSWR    | Maximum Power Input | Connector Options                                          |
|---------------|-----------------|----------|---------------------|---------------------------|-------------------------|---------|---------------------|------------------------------------------------------------|
| MP8066XFPT    | 806-960 MHz     | 8.1 dBi  | > 17 dB             | 70°                       | 60°                     | < 1.5:1 | 20 Watts            | N female (part #NF) standard. Other options are available. |
| MP8906XFPT    | 890-960 MHz     | 8.6 dBi  | > 17 dB             | 70°                       | 60°                     | < 1.5:1 | 20 Watts            |                                                            |
| MP9027XFPT    | 902-928 MHz     | 9.1 dBi  | > 17 dB             | 65°                       | 65°                     | < 1.5:1 | 20 Watts            |                                                            |
| MP9026CPLXFPT | 902-928 MHz     | 8.5 dBic | > 20 dB             | 65°                       | 65°                     | < 1.5:1 | 20 Watts            |                                                            |
| MP9026CPRXFPT | 902-928 MHz     | 8.5 dBic | > 20 dB             | 65°                       | 65°                     | < 1.5:1 | 20 Watts            |                                                            |

## Mechanical Specifications

| Model #       | Wind Loading (Frontal) @100 mph Wind | Temperature Range | Dimensions                                    | Weight               | High Performance Cable |
|---------------|--------------------------------------|-------------------|-----------------------------------------------|----------------------|------------------------|
| MP8066XFPT    | 27.9 lbs.                            | -40°C to +70°C    | 8.8" x 8.1" x 1.6"<br>(22.4 x 20.6 x 4.06 cm) | 1.2 lbs<br>(0.54 kg) | 12" (30.5 cm) RG58/U*  |
| MP8906XFPT    | 27.9 lbs.                            | -40°C to +70°C    | 8.8" x 8.1" x 1.6"<br>(22.4 x 20.6 x 4.06 cm) | 1.2 lbs<br>(0.54 kg) | 12" (30.5 cm) RG58/U*  |
| MP9027XFPT    | 27.9 lbs.                            | -40°C to +70°C    | 8.8" x 8.1" x 1.6"<br>(22.4 x 20.6 x 4.06 cm) | 1.2 lbs<br>(0.54 kg) | 12" (30.5 cm) RG58/U*  |
| MP9026CPLXFPT | 27.9 lbs.                            | -40°C to +70°C    | 8.8" x 8.1" x 1.6"<br>(22.4 x 20.6 x 4.06 cm) | 1.2 lbs<br>(0.54 kg) | 12" (30.5 cm) RG58/U*  |
| MP9026CPRXFPT | 27.9 lbs.                            | -40°C to +70°C    | 8.8" x 8.1" x 1.6"<br>(22.4 x 20.6 x 4.06 cm) | 1.2 lbs<br>(0.54 kg) | 12" (30.5 cm) RG58/U*  |

\* UL910 rated cable optional.