



# Ultra Flat Dual-Polarization LTE MIMO Ceiling Mount Outdoor/Indoor DAS Antenna

The PIM160-OCM is a dual-polarization LTE MIMO antenna with ultra-low PIM (@ 2x43 dBm) for ceiling mount installations. The antenna is designed to operate within the frequency ranges of 698-960 MHz and 1710-2700 MHz, providing optimized pattern coverage for outdoor or indoor DAS applications.

### Features

- Dual-polarization (vertical/horizontal) LTE MIMO design
- Ultra-low PIM (@ 2x43 dBm)
- 4.1-9.5 Mini DIN, 4.3-10 or N Female connector options for carrier network compliance
- IP67 ingress protection for ceiling mount installations outdoor or indoors
- Multi-band coverage with low VSWR performance
- Aesthetically pleasing, low-profile housing
- Single stud mount cable exit for installation ease
- UL94 V0 listed materials and plenum rated cable for compliance to strict building safety code specifications



PIM160-OCM

### STANDARD CONFIGURATION

| Model          | Cable                        | Connectors            | Mounting Method   | Radome                          |
|----------------|------------------------------|-----------------------|---|---------------------------------|
| PIM160-OCM-4.3 | 7.87-inch (200mm)            | Two x 4.3-10 (Female) | Ceiling Mount.  | White, UV-resistant ABS plastic |
| PIM160-OCM-NF  | R670-141 SXE Plenum (2 each) | Two N Female          | Single 1.34" (34 mm) M18 x 1.0 threaded stud and plastic HEX nut. |                                 |

### ELECTRICAL SPECIFICATIONS (ALL MODELS)

| Frequency Range | Average Peak Gain | VSWR (Average) | Port-to-Port Isolation |
|-----------------|-------------------|----------------|------------------------|
| 698-746 MHz /   | 3.4 dBi           | 1.8:1          | ≤ -17 dB               |
| 746-896 MHz /   | 3.4 dBi           | 1.5:1          | ≤ -17 dB               |
| 896-960 MHz /   | 3.4 dBi           | 1.6:1          | ≤ -17 dB               |
| 1695-2200 MHz / | 5.9 dBi           | 1.5:1          | ≤ -25 dB               |
| 2200-2700 MHz   | 5.9 dBi           | 1.6:1          | ≤ -25 dB               |

### ELECTRICAL SPECIFICATIONS, continued

| Power Handling     | Nominal Impedance | Polarization                                     | Azimuth Half Power Beamwidth | PIM Rating 3rd Order, 2 x 20 W (Typical) |
|--------------------|-------------------|--|------------------------------|--|
| 50 watts (maximum) | 50 ohms           | Linear Horizontal/<br>Vertical for each radiator | Omnidirectional              | ≤ -160 dBc each port                     |

### MECHANICAL & ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

| Dimensions                             | Weight            | Temperature Range                                      | Material Substance |
|--|-------------------|--|--------------------|
| 8.58 OD x 1.85 H in<br>(21.8 x 4.7 cm) | 1.4 lbs (0.65 kg) | -40°C to +80°C (Storage)<br>-30°C to +70°C (Operating) | RoHS Compliant     |