

VenU® Dual-Band, 802.11 ac Sector Antennas

The FPMI2458 dual-band sector antennas can be used for 802.11n, ac MIMO applications. The antennas cover both 2.4-2.5 GHz and 4.9-5.9 GHz in one radome. The UV-protected radome is constructed from lightweight, durable plastic. The antennas can be used with a single access point to provide full dual-band 802.11n, ac MIMO coverage. The elements can also be used individually or in combination to provide diversity/nondiversity coverage with legacy 802.11n, ac access points.



Features

- UL 94 HB ASA radome and PC board conform to UL's high flame retardant rating, allowing maximum installation flexibility
- Meets stringent building code requirements
- Attractive, low-profile housing blends well with indoor and outdoor environments where aesthetic considerations are important
- Screws and anchors for wall mount included; adjustable mounting brackets sold separately
- Dual-band performance on each port



FPMI2458-DP4RPSMA



FPM-1005 mount



STANDARD CONFIGURATION

| Model | Cable | Connector | Mount |
|-------------------|---------------------------|------------|---|
| FPMI2458-DP4RPSMA | Four 32-inch UL94 RG-316 | RPSMA Plug | Wall mount FPM-1005 adjustable mounting bracket sold separately. (all models) |
| FPMI2458-TP3RPSMA | Three 32-inch UL94 RG-316 | RPSMA Plug | |
| FPMI2458-DP2RPSMA | Two 32-inch UL94 RG-316 | RPSMA Plug | |
| FPMI245865-TP3NM | Three 32-inch UL94 RG-316 | N Male | |

ELECTRICAL SPECIFICATIONS - RF ANTENNA

| Model | Frequency Range | Gain | VSWR | Azimuth Half Power Beamwidth | Elevation Half Power Beamwidth |
|-------------------|-----------------------------|---------------|--------------------------|------------------------------|--------------------------------|
| FPMI2458-DP4RPSMA | 2.4-2.5 GHz / 5.1-5.9 GHz | 6 dBi / 5 dBi | 1.5 typical, 2.0 maximum | 85° / 60° | 80° / 65° |
| FPMI2458-TP3RPSMA | 2.4-2.5 GHz / 4.9-5.9 GHz | 6 dBi / 5 dBi | 1.5 typical, 2.0 maximum | 100° / 75 | 90° / 60° |
| FPMI2458-DP2RPSMA | 2.4-2.5 GHz / 4.9-5.875 GHz | 6 dBi / 5 dBi | 1.5 typical, 2.0 maximum | 85° / 60° | 80° / 65° |
| FPMI245865-TP3NM | 2.4-2.5 GHz / 4.9-5.85 GHz | 8 dBi / 8 dBi | 1.5 typical, 2.0 maximum | 70° / 60° | 70° / 55° |

ELECTRICAL SPECIFICATIONS - RF ANTENNA, continued (ALL MODELS)

| Front to Back Ratio | Average Power | Nominal Impedance | Polarization |
|---------------------|---------------|-------------------|--------------------------------------|
| 20 dB typical | 20 watts | 50 ohms | Vertical, linear, ± 45° slant linear |

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

| Dimensions | Weight | Housing Material | Ingress Protection | Rated Wind | Temperature Range |
|---|----------------|---------------------|--------------------|------------|----------------------------------|
| 7.88 L x 7.88 W x 1.34 H in (20 x 20 x 3.4 cm) | 1 lb (0.45 kg) | White UV-stable ASA | IP67* | 125 mph | -40°F to +158°F (-40°C to +70°C) |

* When installed according to the manufacturer's installation instructions.