



Proven, Fast, Reliable

WirelessGRID™ Omni-Directional Antenna (4.90-5.85 GHz)

For Use With AIRAYA WirelessGRID™ Base Stations
Model #: AI108-MP-OMNI

Product Highlights

The WirelessGRID™ Omni-Directional antenna are high gain antennas which cover the full 4.90-5.85 GHz frequency range for fixed and mobile applications

- ◆ **High Gain** 10 dBi in a small form factor
- ◆ **Low Wind Loading** at 125 MPH (200 km/h) survivability
- ◆ **Vertically Polarized**
- ◆ **Rugged, weatherproof, integrated designs** integrated connector and galvanized steel bracket for up to 5.5" (139 mm) diameter pole.



Proven Performance

Proven in thousands of private networks worldwide the WirelessGRID™ Omni-Directional 4.90-5.85 GHz Antenna provides a cost effective solution for large scale Point-to-Multi Point applications. The UV protected radome allows for harsh environment installations. The antenna features stable performance with exceptional 10 dBi of gain.

| Environmental | | | |
|-----------------------|-------------------------------------|--------------|----------------------------------|
| Operating Temperature | -40° C to +65° C (-40° F to 149° F) | | |
| Waterproofing | IP65 | Flammability | UL94 |
| Wind Survivability | 125 MPH (200 km/h) survival | | |
| Vibration | According to IEC 60721-3-4 | | |
| Salt and Fog | According to IEC 68-2-11 | Ice and Snow | 25 mm (1.0 in) radial (survival) |

| Models and Ordering Information | |
|---------------------------------|--|
| AI108-MP-OMNI | 360 Degree Omni Antenna 10 dBi Gain, 9 Degree Vertical, Vertical Polar |

| Electrical | | | |
|------------------------------|-----------------|------------------------------|--|
| Frequency Range | 4.90 – 5.85 GHz | | |
| Gain, Minimum | 10dBi | VSWR, Maximum | 4.90-5.15 GHz @ 2:1 5.15-5.80 GHz @ 1.8:1 |
| 3 dB Beam-Width H-Plane, typ | 360° | 3 dB Beam-Width E-Plane, typ | 10° |
| Cross Polarization, Minimum | Linear Vertical | | |
| Input power, Maximum | 50 Watt | Input Impedance | 50 Ohm |
| Lightning Protection | DC Grounded | | |

| Compliance and Certification | |
|------------------------------|--|
| With all AIRAYA Radios | ETS 300 019-1-4, EN 302 085 (annex. A.1.1), RoHS |

| Mechanical Dimensions | |
|-----------------------|---|
| Dimensions (HxWxD) | 330 mm x 46 mm (13 in x 1.8 in) |
| Weight ounces (grams) | 8 ounces (230 grams) |
| Connector | N-Type Female |
| Radome | UV Protected, Plastic |
| Mounting Bracket | 2.5" (63 mm) Pole Mount (End) Attachment (included) |



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