



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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