



Proven, Fast, Reliable

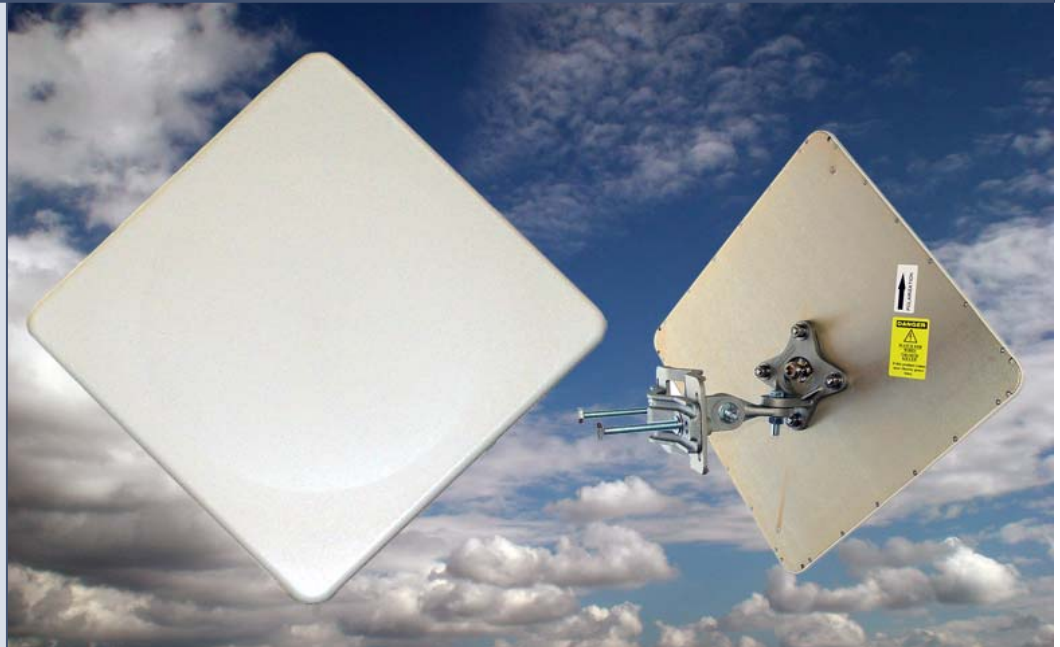
WirelessGRID™ 12 Inch Panel Antenna (4.90-5.85 GHz)

For Outdoor Radios Operating in the 4.90-5.85 GHz Range
Model #: AI108-2-23

Product Highlights

The AIRAYA 12 Inch Panel Antenna is a high-gain directional antenna which covers the full 5 GHz spectrum – including the 4.90-5.85 GHz licensed bands.

- ◆ **Exceptionally High Gain** of 23 dBi over the entire frequency band 5.25-5.85
- ◆ **Diamond shape** provides for highest range of regulatory standards including FCC and ETSI up to TS5
- ◆ **Lightweight** and durable construction
- ◆ **DC grounded for lightning protection** to meet local electrical building codes



Proven Performance

Proven in thousands of private networks worldwide the WirelessGRID™ antennas are designed for rapid deployment in harsh environments. The diamond shape design as well as the adjustable (vertical/horizontal axis), weatherproof mast and wall mount brackets offers unsurpassed deployment flexibility while maintaining the highest range RF performance.

Environmental			
Operating Temperature	-40° C to 65° C (-40° F to 149° F)		
Waterproofing	IP67/NEMA 4	Flammability	UL94
Wind Survivability	130 MPH (230 km/h) Sustained	140 MPH (225 km/h) for 3 seconds	
Vibration	Designed to IEC 60721-3-4		
Salt and Fog	Designed to IEC 68-2-11	Ice and Snow	1" (25 mm) Radial Survival

Models and Ordering Information	
AI108-2-23	FCC and Industry Canada certified 23 dBi Antenna for use with AI108 wireless bridges. Includes all mounting hardware for mast size 1" (26 mm) thru 4.5" (115 mm)

Electrical			
Frequency Range	4.90 Ghz to 4.99 Ghz @ 21 dBi, 5.0-5.85 @ 23dBi		
Gain, Minimum	23 dBi	VSWR, Maximum	1.5: 1
Polarization	Vertical or Horizontal	Front to Back Ratio, Minimum	-40 dB
3 dB Beam-Width	H-Plane, Typical: 10°, E-Plane, Typical: 10°		
Side Lobes, Minimum	-23 dB	Cross Polarization, Minimum	-24 dB
Input power, Maximum	30 Watts	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)	12 x 12 x .6 in (305 x 305 x 15 mm)
Weight lbs (grams)	1.85 lbs (840 grams)
Connector	N-Type Female (50 Ohm)
Backplane	Aluminum Protected Through Chemical Passivation
Radome	UV Protected Polycarbonate
Mounting Bracket	Includes Mast Mount and Clamp Kit for 1" (26 mm) Diameter thru 4.5" (115 mm) Diameter Mast. Also Wall Mountable



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