



Proven, Fast, Reliable

WirelessGRID™ 24 dBi Dual Polarity Antenna (4.90-5.85 GHz)

For Use With AIRAYA Full-Duplex Radios
Model #: AI108-2-24

Product Highlights

The AIRAYA 24 dBi Dual Polarity Panel Antenna is a high-gain directional antenna which is capable of operating in the 4.90 to 5.85 GHz frequency range.

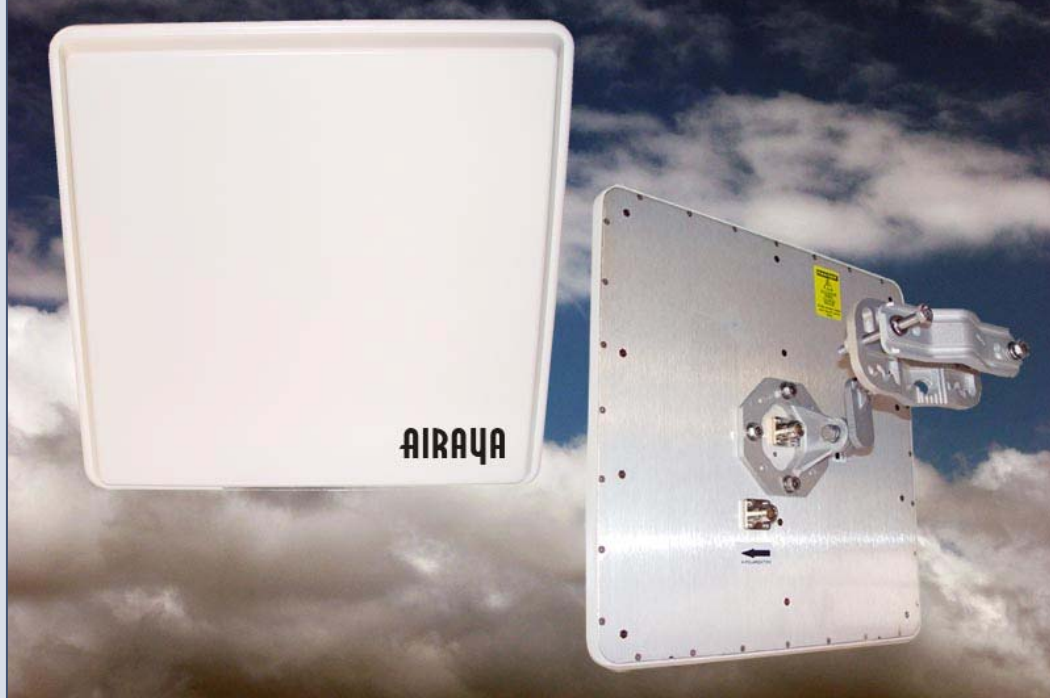
◆ **Exceptionally High Gain** of 24 dBi over the entire frequency band 4.90-5.85

◆ **Dual Polarity Vertical and Horizontal** connections allow for 2 unique radio transmit and receive paths

◆ **Lightweight** and durable construction

◆ **DC Grounded** for lightning protection to meet local electrical building codes

◆ **Includes Mast/Wall Mount Brackets** with adjustment points for both vertical and horizontal axis



Proven Performance

Proven in thousands of private networks worldwide, 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° to 65° C (-40° 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	
AI108-2-24	FCC and Industry Canada certified 24 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	4.90-5.85 Ghz @ 24 dBi		
Gain, Minimum	24 dBi	VSWR, Maximum	1.7:1
Polarization	Vertical and Horizontal	Front to Back Ratio, Minimum	-35 dB
Beam-Width	H-Plane, Typical: 9°, E-Plane, Typical: 9°		
Side Lobes, Minimum	ETSI TS3, TS4, TS5	Cross Polarization, Minimum	-30 dB
Input power, Maximum	5 Watts	Input Impedance	50 Ohm
Lightning Protection	DC Grounded		

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

Mechanical Dimensions	
Dimensions (HxWxD)	14.5 x 14.5 x .1.7 in (370 x 370 x 45 mm)
Weight lbs (grams)	4.4 lbs (2 kg)
Connector	2 x N-Type Female (50 Ohm). One Vertical and one Horizontal Connector
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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