



Proven, Fast, Reliable

WirelessGRID™ 29 dBi Dual Polarity Dish Antenna (4.90-5.85 GHz)

For Use With AIRAYA Full-Duplex Radios
Model #: AI108-2-29

Product Highlights

The AIRAYA 29 dBi is a high performance Dual Polarity dish antenna that is capable of operating in the 4.90 to 5.85 GHz frequency range.

- ◆ **Exceptionally High Gain** of 29 dBi over the entire frequency band 4.90-5.85 GHz
- ◆ **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
- ◆ **Rugged, weatherproof, integrated designs** for ease of installation, configuration, diagnostics and management



Proven Performance

Proven in thousands of private networks worldwide, the WirelessGRID™ 29 dBi Dual Polarity dish antenna offers the system engineer the best performance available on the market. The antenna meets ETSI EN 302 085 TS4/TS5 and EN 300 833 Class 1 specifications, the most stringent specifications for point to point backhaul antennas. The unique feed system features dual polarized systems which can utilize dual polarization to increase bandwidth or implement diversity.

Environmental			
Operating Temperature	-40° to 70° C (-40° to 158° F)		
Waterproofing	IP67	Flammability	UL94
Wind Survivability	113 MPH (70 km/h) Sustained	177 MPH (109 km/h) for 3 seconds	
Vibration	Designed to IEC 60721-3-4		
Salt and Fog	Designed to IEC 68-2-11	Ice and Snow	Radome Available

Models and Ordering Information	
AI108-2-29	29 dBi Dual Polarity Parabolic antenna

Electrical			
Frequency Range	4.90-5.85 GHz		
Gain, Minimum	29dBi	VSWR, Maximum	1.8:1
Beam-Width	6 Degrees	Front to Back Ratio, Minimum	-32dB
Side Lobes, Minimum	-32dB	Cross Polarization, Minimum	-52 dB
Input power, Maximum	100 Watts	Input Impedance	50 OHM
Lightning Protection	DC Grounded		

Compliance and Certification	
With all AIRAYA Radios	ETSI EN 302 085 TS4/TS5 and EN 300 833 Class 1, RoHS

Mechanical Dimensions	
Dimensions (Diameter)	25.5 inches (648 mm)
Weight lbs (grams)	11 lbs (5 kg)
Mechanical Down Tilt	30° Degrees
Pole Diameter	2" (50 mm) Minimum to 4" (101.6 mm) Maximum



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