

Airaya

Proven, Fast, Reliable

WirelessGRID™ 23 dBi Panel Antenna

Model #: AI108-2-23 (4.8-5.875 GHz)

For Use With Outdoor Radios Operating In The 4.80-5.875 GHz Range

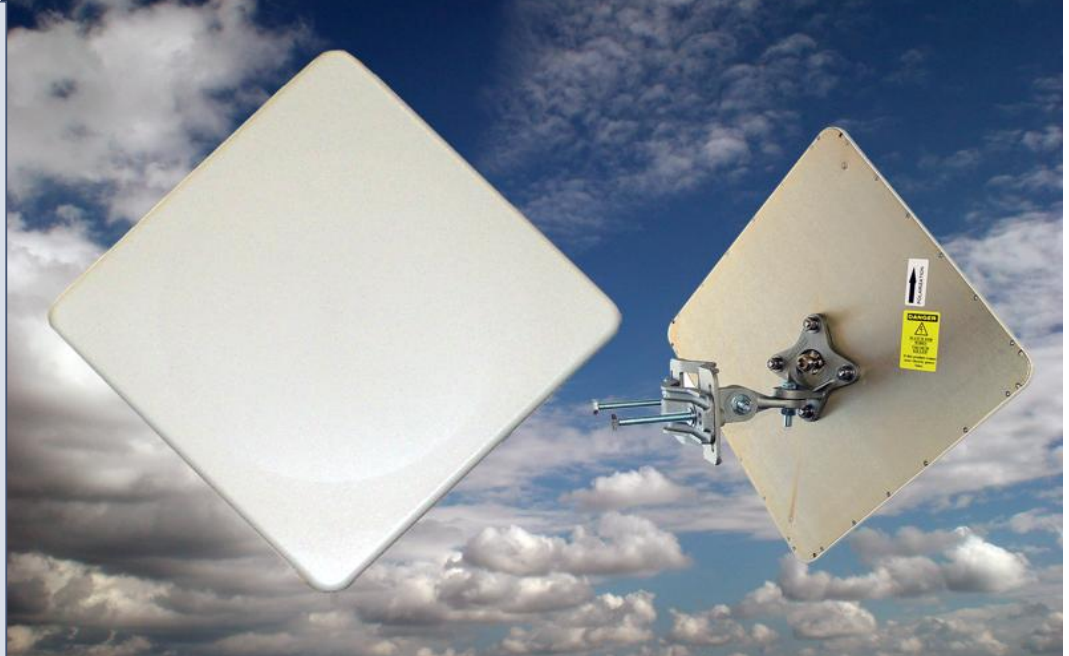
The AIRAYA 23 dBi Panel Antenna is a high-gain directional antenna which covers the full 5 GHz spectrum – including the 4.80-5.15 GHz licensed bands, and all UNII and ETSI bands between 5.15 and 5.875 GHz.

Additional Features

- Exceptionally high gain of 23 dBi over the entire frequency band 5.15-5.875
- Supports 4.8-5.15 GHz frequency range at 21 dBi gain
- Diamond shape provides for highest range of regulatory standards including FCC and ETSI up to TS5
- Light weight and durable construction
- DC grounded for lightning protection to meet local electrical building codes
- Includes Mast/Wall mount bracket with adjustment points for both vertical and horizontal axis



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Specifications

Mechanical			
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" (26mm) Diameter thru 4.5" (115mm) Diameter Mast. Also Wall Mountable		

Environmental			
Operating Temperature	-40 to 65°C (-40 to 149°F)		
Waterproofing	IP66	Flammability	UL94
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)		
Wind Survivability	130 MPH Sustained	140 MPH for 3 Seconds	
Vibration	Designed to IEC 60721-3-4		
Salt and Fog	Designed to IEC 68-2-11	Ice and Snow	1" (25mm) Radial Survival

Electrical			
Frequency Range	5.15 Ghz to 5-8.75 Ghz @ 23 dBi, 4.80-5.15 @ 21dBi		
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		

Standards Compliance	
With all AIRAYA Radios	ETSI EN 302 085 V1.2.3 – TS1, TS2, TS3, TS4, TS5