

**WIRELESS COMMUNICATIONS SOLUTIONS
DIVISION**

**Outdoor Integrated Enclosure
4.9-5.875 GHz 23 dBi Panel Antenna**



Model: ARC-5823P

This outdoor enclosure with integrated directional antenna is an innovative low cost solution for integrating electronics and an antenna into a single package eliminating the need for bulky cables. The antenna and enclosure both meet IP67 weatherproofing requirements. The single linear polarization directional panel antenna consists of a patented low cost, high performance circuit design that can be mounted in either a vertical or horizontal polarization configuration. The antenna is enclosed in a very low profile, UV stabilized ABS plastic radome with aluminum backplane for superior weatherability. The enclosure is a lightweight, powder-coated die-cast aluminum designed to address thermal issues inherent in outdoor installations of sensitive electronic equipment. A pole/wall mounting kit is also included.

Electrical Specifications

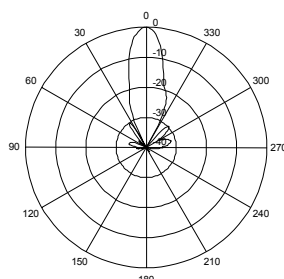
Frequency Range	5.15-5.875 GHz
Gain	19 dBi
4.9-5.1 GHz	23 dBi
5.1-5.875 GHz	
Vertical Beamwidth	10 deg
Horizontal Beamwidth	10 deg
Polarization	Single linear, horizontal or vertical
VSWR	≤1.7:1
Front-to-Back Ratio	>40 dB
Cross Polarization	>30 dB
Power Rating	30 watts
Impedance	50 ohms
Lighting Protection	DC ground
Connector Type (others available)	Integral type N jack, standard

Mechanical and Environmental Specifications

Antenna Dimensions	13.3 in x 13.3 in x 0.4 in (338 mm x 338 mm x 10 mm)
Enclosure Dimensions, Interior	8.5 in x 7.5 in x 2.2 in (216 mm 191 mm x 56 mm)
Weight	6.0 lb (2.7 kg)
Enclosure	Die-cast aluminum
Backplane	Aluminum
Radome	UV stabilized ABS plastic
Wind Survivability	125 mph (201 kph)
Wind Load	1.23 ft ² (0.12 m ²)
Operating Temperature Range	-49°F to +149°F (-45°C to +65°C)
Pole Mount Diameter Range	0.75 in to 3.0 in (19 mm to 76 mm)

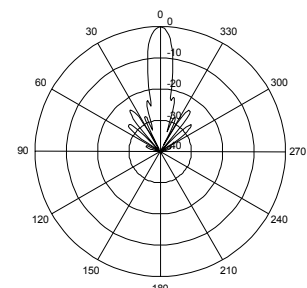
Radiation Patterns, typ.

Vertical



Antenna mounted in vertical polarization configuration

Horizontal



Specifications subject to change without notice