

5 GHz Dual-Polarized Directional Array Antenna

This 5 GHz dual port, dual-polarized directional array antenna provides high gain and managed sidelobes pattern shaping that supports a variety of broadband wireless access applications, including point-to-point wireless backhaul and point-to-multi point trackside Wi-Fi. The platform's discrete directional antenna technology combines two traditional antennas into a single package without sacrificing performance. Unlike traditional panel antennas, this endfire array antenna is physically and visually less obtrusive, making it ideal for installations with limited space availability.

Features

- 802.11n MIMO performance for optimized data speed and throughput
- Dual port, dual-polarization package replaces two traditional directional panels
- Gain and pattern optimized for point-to-point and point-to-multi point connectivity
- Small footprint design can accommodate tunnel or trackside installations with as little as 9 cm clearance
- Includes a robust wall/mast mount bracket designed to withstand maximum 56 m/s wind speed
- High front-to-back ratio allows for back-to-back mounting of antennas; ideal for trackside or roadside coverage



DAA4959-14DP

STANDARD CONFIGURATION

Model	Cable	Connector	Mount
DAA4959-14DP	Mating cable assemblies sold separately	2 x N Female Bulkhead	Wall mount clamp bracket included

ELECTRICAL SPECIFICATIONS - RF ANTENNA

Frequency Range	Gain	VSWR	Azimuth Half Power Beamwidth	Elevation Half Power Beamwidth
4.9-5.9 GHz	14.6 dB	< 2.0:1, typical < 2.5:1, across band	23-35°	23-35°

ELECTRICAL SPECIFICATIONS - RF ANTENNA, continued

Front to Back Ratio	Side Lobes	Nominal Impedance	Polarization	Port-to-Port Isolation
> 35 dB	12-15 dB below peak	50 ohms	Dual port, dual orthogonal	19 dB minimum

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	Ingress Protection	Temperature Range	Rated Wind
Antenna: 1.1 OD x 11.2 L in (2.85 x 28.5 cm) Mounting Bracket: 3.7 OD x 5.3 L x 1.57 W in (9.6 x 13.5 x 11.5 cm)	IP67	-40°C to +70°C	125 mph