

BOA 900MHz antenna (left); Bottom view (top right); BAM1005 mount (bottom left); MMK5 mount (bottom right)



PCTEL Carrier Grade 900MHz Omnidirectional Base Station Antennas

The BOA 900MHz omnidirectional base station antennas consist of a linear array, encapsulated in a heavy duty fiberglass radome with a thick walled 6061-T6 aluminum mounting base for reliable long term use. This rugged design allows the antennas to withstand harsh environments and is ideal for Industrial Wireless and SCADA applications. The BOA series is DC grounded and is UPS shippable.

Features

- UV Stable Light Gray Fiberglass Radome
- Hard-Coat Anodized Mounting Base
- Galvanized Mounting Hardware
- Removable Drain Plug for Upright or Inverted Mounting

RF/Electrical Specifications

Model	Frequency Range	Nominal Gain	Return Loss	SWR	E-Plane Beamwidth
BOA9025	902-928MHz	5.1 dBi/3 dBd	> 14 dB	< 1.5	25°
BOA9028	902-928MHz	8.1 dBi/6 dBd	> 14 dB	< 1.5	13°
BOA90211	902-928MHz	11.1 dBi/9 dBd	> 14 dB	< 1.5	6°

Mechanical Specifications

Model	Weight	Height	Bending Moment at Rated Wind	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area
BOA9025	5.0 lbs	55”	106 ft-lbs	29 lbs	0.77 ft^2
BOA9028	6.0 lbs	68”	178 ft-lbs	38 lbs	0.95 ft^2
BOA90211	10.0 lbs	122”	685 ft-lbs	74 lbs	1.7 ft^2

Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radome Material: Pultruded fiberglass (2” outside diameter)
ESD Protection: DC grounded
Rated Wind: 125 mph
Termination: N female bulkhead
Mounting Hardware: BAM1005 or MMK5 (Included)

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