

PCTEL Carrier Grade 900MHz Omnidirectional Base Station Antennas

The PCTEL BOA 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. The rugged and robust design makes these antennas ideal for deployment in harsh environments where long term reliability and durability cannot be compromised.

This platform is ideal for industrial wireless applications in the SCADA, Utility Smart Grid, Positive Train Control, Remote Monitoring, Precision Agriculture, and Military/Defense markets.

Features

- UV stable gray fiberglass radome
- Versatile mounting brackets included
- Black, hard coat anodized finish on antenna base and mounting brackets
- Movable drain plug for upright or inverted mounting
- DC grounded for ESD protection
- Stable pattern and gain performance across specified frequency bands



BAM1005 mount

RF/Electrical Specifications

Model	Frequency Range	Nominal Gain	Return Loss	SWR	E-Plane Beamwidth
BOA7465	746-787 MHz	5.1 dBi/3 dBd	> 14 dB	< 1.5	25°
BOA9025	902-928 MHz	5.1 dBi/3 dBd	> 14 dB	< 1.5	25°
BOA9028	902-928 MHz	8.1 dBi/6 dBd	> 14 dB	< 1.5	13°
BOA90211	902-928 MHz	11.1 dBi/9 dBd	> 14 dB	< 1.5	6°

Mechanical Specifications

Model	Weight (Mass)	Height	Bending Moment at Rated Wind	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area
BOA7465	5.0 lbs (2.27 kg)	55 in (139.7 cm)	106 ft-lbs	29 lbs	0.77 sq ft
BOA9025	5.0 lbs (2.27 kg)	55 in (139.7 cm)	106 ft-lbs	29 lbs	0.77 sq ft
BOA9028	6.0 lbs (2.72 kg)	68 in (172.7 cm)	178 ft-lbs	38 lbs	0.95 sq ft
BOA90211	10.0 lbs (4.54 kg)	122 in (309.9 cm)	685 ft-lbs	74 lbs	1.7 sq ft

Technical Data

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

