



BOA 900MHz antenna (left);
Bottom view (top right);
BAM1005 mount (bot-
tom 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

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|----------------------------------------------------------------|
| 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) |