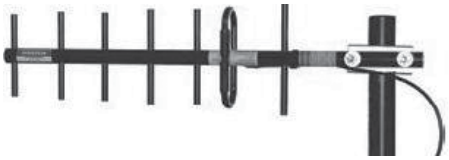
# Bluewave Guardian Yagi Antennas

PCTEL's Bluewave Guardian series has been engineered to provide high gain broadband performance. Solid 3/8" aluminum elements complement the fully welded dipole on the boom. The black powder coat BGYD890M comes with an integral low loss 2' RG213 feed line with a standard N Female connector. High strength mounting clamp is supplied for vertical or horizontal polarization.



BGYD890K

## Features

- Dipole fully-welded to boom
- Black powder coated aluminum
- Mounting clamp included
- Antenna is supplied with a 2' pigtail (RG213) and N Female connector
- Elements and boom are crafted from high strength 6061-T6 aluminum
- Wind rated > 150 mph
- Temperature range -40°C to +85°C



BWC1001 mount



SA-WC1022 mount

## STANDARD CONFIGURATION

| Model | Cable | Connector | Elements | Mount |
|---|---|---|---|---|
| BGYD806K | 2 ft RG213 | N Female | 7 | SA-WC1022 |
| BGYD890G | 2 ft RG213 | N Female | 3 | SA-WC1022 |
| BGYD890K | 2 ft RG213 | N Female | 7 | SA-WC1022 |
| BGYD890M | 2 ft RG213 | N Female | 11 | SA-WC1022 |

## ELECTRICAL SPECIFICATIONS - RF ANTENNA

| Model | Frequency Range | Gain | Azimuth Half Power Beamwidth | Elevation Half Power Beamwidth | Front to Back Ratio | Maximum Power | Nominal Impedance |
|---|---|---|---|---|---|---|---|
| BGYD806K | 806-896 MHz | 10 dBd | 60° | 46° | 20 dB | 200 watts | 50 ohms |
| BGYD890G | 890-960 MHz | 6.5 dBd | 110° | 62° | 15 dB | 200 watts | 50 ohms |
| BGYD890K | 890-960 MHz | 10 dBd | 56° | 46° | 20 dB | 200 watts | 50 ohms |
| BGYD890M | 890-960 MHz | 12 dBd | 40° | 34° | 20 dB | 200 watts | 50 ohms |

## MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

| Model | Dimensions* | Lateral Thrust @ 100 mph | Lateral Thrust @ 100 mph with ½" of Ice | Bending Moment @ 100 mph | Weight | Cross Sectional Area |
|---|---|---|---|---|---|---|
| BGYD806K | 24" x 6.5" x 2.5" | 7.67 lb | 24.86 lb | 6.53 lb-ft | 2 lbs (0.91 kg) | 0.20 sq ft |
| BGYD890G | 12" x 7.3" x 2.5" | 3.68 lb | 9.79 lb | 1.0 lb-ft | 1.5 lbs (0.68 kg) | 0.08 sq ft |
| BGYD890K | 23.8" x 6.4" x 2.5" | 7.53 lb | 24.4 lb | 6.35 lb-ft | 2 lbs (0.91 kg) | 0.20 sq ft |
| BGYD890M | 36" x 6.8" x 2.5" | 11.86 lb | 36.99 lb | 15.8 lb-ft | 2.5 lbs (1.13 kg) | 0.31 sq ft |

* Dimension do not include antenna cable.