

## 700/800/900 MHz MIMO Yagi Antennas with Dual Polarization

The dual-polarized BYD antennas are high gain, premium quality with excellent port to port isolation. Manufactured using high strength 6061-T6 aluminum, they will withstand heavy ice, high wind and other harsh conditions. The entire antenna is anodized for aesthetic appearance and corrosion resistance.

### Features

- Dual linearly polarized
- Temperature range -40° C to +85° C
- Wind survival rating > 200 mph
- Return loss > 14 dB
- Port to port isolation > 35 dB
- VSWR: ≤ 1.5:1
- Cross polarization discrimination > 25 dB



BYD806K-DP



SA-WC1001AT

### STANDARD CONFIGURATION

Model	Connector	Elements	Mount
BYD757K-DP BYD806K-DP BYD890K-DP	Type-N Female	7 (Per Polarization)	SA-WC1001AT mount included. Mounts to mast OD 1.25-2.4".

### ELECTRICAL SPECIFICATIONS - RF ANTENNA

Model	Frequency Range	Gain	Front to Back Ratio	E-Plane 3 dB Beamwidth	H-Plane 3 dB Beamwidth	Average Power	Nominal Impedance
BYD757K-DP	757-788 MHz	12 dBi	> 10 dB	40°	47°	200 watts	50 ohms
BYD806K-DP	814-863 MHz	12 dBi		42°	49°		
BYD890K-DP	890-960 MHz	11 dBi		44°	50°		

### MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Model	Dimensions	Weight (Mass)	Equivalent Flat Plate Area	Lateral Thrust @ 150 mph	Lateral Thrust Bending Moment @ 150 mph	Lateral Thrust @ 100 mph with 1/2" Ice
BYD757K-DP	37" x 8" x 8" (939.8 mm x 203 mm x 203 mm)	3.27 lbs. (1.48 kg)	.27 ft <sup>2</sup>	38.71 lbf (172.19 N)	36.99 lbf-ft (50.15 N-m)	44.31 lbf (197.10 N)
BYD806K-DP	37" x 7" x 7" (939.8 mm x 178 mm x 178 mm)	3.25 lbs. (1.47 kg)	.26 ft <sup>2</sup>	37.37 lbf (166.24 N)	35.36 lbf-ft (47.94 N-m)	42.13 lbf (187.41 N)
BYD890K-DP	37" x 7" x 7" (939.8 mm x 178 mm x 178 mm)	3.25 lbs. (1.47 kg)	.25 ft <sup>2</sup>	36.27 lbf (161.34 N)	33.70 lbf-ft (45.69 N-m)	40.33 lbf (179.40 N)