

BD-2400 Bi-Directional Blade Style WiFi Antenna



Blade Style Antenna

- Slim profile; dependable link
- Mechanically sound, meets IPx7 water ingress standards
- N Jack Connection

The BD-2400 is a Bi-Directional infrastructure antenna for WiFi at 2.4 GHz. It can be mounted in any setting where a slim profile is desired. It offers outstanding electrical performance as well as a unique physical package.

Mobile Mark's BD-2400 blade-style antenna has a single element for 2.4 to 2.5 GHz WiFi in a slim, compact radome. It measures only 7 1/2" long by 1 1/2" deep and less than 4" tall (19 cm x 3.8 cm x 10 cm).

Using our new slim line package, the BD-2400 comes with a Direct N jack to connect the antenna to the WiFi modem. A cable assembly may be used to complete the connection.

This blade style antenna is ground-plane independent and designed to perform on either a fiberglass or metal box with up to a .20" (5 mm) thick surface.

The base bolt is attached through a mounting hole that accommodates the WiFi connection. A special gasket preserves the IPx7 water ingress rating when properly mounted.

Two 5/8" (1.6 cm) studs at the base of the antenna are attached through separate mounting holes to help prevent the antenna from rotating on the surface.

The BD-2400 has 50 Nominal Impedance with a maximum power of 10 watts. In addition, the VSWR rating for this antenna is less than 1.5:1 over range.

The beamwidth for the BD-2400 comes in at 50° for Azimuth and 50° for Elevation. While no ground plane is required for this antenna, it does perform better on a metal ground-plane.

The electrical tilt beamwidth is 0° with no ground plane compared to 15° max uptilt with a groundplane.

Model #	Frequency:	Gain:
BD-2400-GRY	2.4-2.5 GHz	8-10 dBi

Specifications			
Frequency:	2.4 to 2.5 GHz	Radome Material:	Light Grey UV Inhibitive Plastic
Gain:	8 dBi without groundplane 10 dBi with groundplane	Operating Temperature:	-40° to +80° C
VSWR:	<1.5:1 VSWR over Range	Connectors/Interface:	Direct N Jack
Impedance:	50 Ohm Nominal	Groundplane:	Not required, but recommended
Maximum Power:	10 Watts	Electrical Tilt Beamwidth:	No groundplane: 0° With groundplane: 10-15° uptilt
Beamwidth:		Water Ingress:	IPx7
Azimuth:	50° horizontal	Hardware included:	Two 5/8" (1.6 cm) anti-rotational studs attached at the base of the antennas
Elevation:	50° vertical		
Mounting dimensions	25° with ground plane 5/8" (1.5 cm) Dia. Feed through 5/8" long thread (1.5 cm) lg. thread for up to .20" (0.5 cm) thick surface (Electrical Cabinet)		