



This antenna is designed to cover frequencies from 2.4 GHz to 2.5 GHz and 4.9 GHz to 5.9 GHz. Its slim, low profile housing and pipe mount provide added mounting flexibility for locations where space availability is limited.



### Technical Data

<b>General Specifications:</b> Dual band, dual input sector panel antenna
<b>Polarization:</b> Vertical
<b>Nominal Impedance:</b> 50 ohms
<b>VSWR:</b> < 1.5:1 (2400-2500 MHz) < 1.7:1 (4925-5925 MHz)
<b>Radome Material:</b> Sky Gray UV resistant plastic
<b>Lighting Protection:</b> Each input DC grounded
<b>Termination:</b> 2.4 to 2.5 GHz N female bulkhead 4.9 to 5.9 GHz N female bulkhead
<b>Mounting Method:</b> Adjustable mount Pipe mount included

## Dual Band, Dual Input Sector Panel Antenna

The MSPDBDI244914NF sector panel antenna provides coverage of 2.4 GHz to 2.5 GHz and 4.9 GHz to 5.9 GHz frequencies in a single antenna housing. Its dual N female bulkhead inputs permit simultaneous operation of 4.9 GHz Public Safety, 802.11a, b, g and WiMAX radio devices. This antenna features a rugged UV resistant housing and includes a pipe mount for outdoor installations.

### Features

- Covers 2.4 to 2.5 GHz and 4.9 to 5.9 GHz frequencies with excellent VSWR performance.
- Outstanding front-to-back ratio and controlled sidelobe radiation ensures that the radiated energy is targeted towards the area of coverage.
- Included adjustable pipe mount permits uptilt, downtilt or vertical adjustment of +/-15 degrees for more precise coverage of the geographic area.
- Slim, low profile housing and included pipe mount provide added mounting flexibility for locations where space availability is limited.
- High isolation design - outstanding for both bands. 68 dB is typical when antennas are radially spaced and used for omnidirectional coverage (typically 3 antennas are used radially spaced, 120° apart).

### Antenna Electrical Specifications

Model	Frequency Range	Nominal Gain	Nominal Isolation (radially spaced 120° apart)
MSPDBDI244914NF	2400-2500 MHz	14 dBi +/- 0.5	- 68 dB
	4925-5925 MHz	14 dBi +/- 0.5	- 68 dB

Model	Frequency Range	Horizontal Plane Beamwidth	E-Plane Beamwidth	Front-to-Back Ratio
MSPDBDI244914NF	2400-2500 MHz	90°	15°	> 32 dB
	4925-5925 MHz	120°	8°	> 32 dB

### Mechanical Specifications

Model	Dimensions	Weight (Mass)
MSPDBDI244914NF	36" L x 5.5" W x 3" D (91.4 x 13.9 x 7.6 cm)	6 lbs (13.2 kg)

Temperature Range	Rated Wind Velocity	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area
-30°C to +75°C	125 mph	67 lbf	0.68 ft <sup>2</sup>

For detailed specifications, visit <http://antenna.pctel.com>.