

0.15m | 0.5ft Flat Panel Antenna, Dual-Polarized, 5.15-5.85GHz

FPD.5-5-18V2



The RadioWaves high performance flat panel antenna FPD.5-5-18v2 is engineered for superior performance and designed for rugged environments with a low profile, aesthetically pleasing design. Measuring 10" x 10" this antenna is extremely compact and toughened to stand up to all environments.

The FPD.5-5-18v2 has 18 dBi gain, 17° Horizontal Beamwidth and 17° Vertical Beamwidth patterns with Vertical + Horizontal polarization and features 2 x Type N Female connectors. The 5150-5850 MHz FPD.5-5-18v2 is rugged and weatherproof and features a heavy-duty UV-resistant plastic radome for all-weather operation.

The FPD.5-5-18v2 is ideal for Point-to-Point applications in WLAN, public safety and UNII applications. The 2 x Type N Female connectorized FPD.5-5-18v2 antenna includes mounting bracket and hardware for ease of installation.

Features

- Dual polarity feed system in single enclosure
- Includes tilt and swivel mast mounting
- Two integral N-Female connectors
- UV-resistant radome for all-weather operation
- MIMO - Multiple-Input and Multiple-Output

Applications

- 5.3 GHz, 5.4 GHz and 5.8 GHz band applications
- IEEE 802.11a Wireless LAN
- 5.8GHz UNII and ISM applications
- Unlicensed European 5.4 GHz band applications
- WiMAX technology
- Wi-Fi systems
- 5.8 GHz wireless video systems

SPECIFICATIONS

General

Antenna Type	Flat Panel Antenna
Size, nominal	0.5 ft 0.15 m

Polarization	Dual
Standard RF Connector Type	N-Female

Electrical

Operating Frequency Band	5.15 - 5.85 GHz
Half Power Beamwidth, Horizontal	17 degrees
Half Power Beamwidth, Vertical	17 degrees
Front to Back Ratio (F/B)	30 dB

Gain, Mid Frequency	18 dBi
VSWR	2.0:1
Return Loss	-10 dB
Port to Port Isolation, Max (dB)	28 dB

Mechanical

Fine Elevation Adjustment	+/- 10 degrees
Mounting Pipe Diameter, Min	2 inch 5.1 cm
Mounting Pipe Diameter, Max	2.5 inch 6.4 cm
Net Weight	3 lbs 1.4 kg
Wind Velocity Operational	90 mph 145 km/h

Wind Velocity Survival Rating	125 mph 201 km/h
Mechanical Configuration	FPD-5-5
Axial Force (FA)	62 lbs N
Operating Temperature Range	-40 to +60 C

Regulatory Compliance

Industry Canada Compliance	undeclared
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard
Gross Weight	4 lbs 1.1 kg

Dimensions, L x W x H	16 x 16 x 6in 27 x 27 x 17 cm
Shipping Volume	0.5 cu ft 0.01 cu m

Contact RadioWaves for alternate RF interface options.

TECHNICAL DRAWINGS

