

0.3m | 1ft. Flat Panel Antenna, Dual-Polarized, 3.3-4.2GHz

FPD1-3.5-14



The RadioWaves high performance flat panel antenna FPD1-3.5-14 is engineered for superior performance rugged environments with a low profile aesthetically pleasing design. Measuring 7.5" x 7.5" this antenna is extremely compact and toughened to stand up to all environments.

The FPD1-3.5-14 has 7.5 to 9 dBi gain, features 45° Horizontal Beamwidth and 40° Vertical Beamwidth patterns with Vertical + Horizontal polarization and includes 2 x Type N Female connectors. The 3500-4200 MHz FPD1-3.5-14 is rugged, weatherproof and features a heavy-duty UV-resistant plastic radome for all-weather operation.

The FPD1-3.5-14 is ideal for Point to Point applications where form factor is a concern and coverage of extended CBRS is necessary. The 2 x Type N Female connectorized FPD1-3.5-14 antenna from RadioWaves has 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

- 3.5 GHz Band Applications
- SOFDMA
- CBRS and Extended CBRS
- Wireless Internet Provider "cell" sites
- Wireless LAN systems & IEEE 802.16e Applications

SPECIFICATIONS

General

Antenna Type	Flat Panel Antenna
Size, nominal	1 ft 0.3 m

Polarization	Dual
Standard RF Connector Type	N-Female

Electrical

Operating Frequency Band	3.3 - 4.2 GHz
Half Power Beamwidth, Horizontal	45 degrees
Half Power Beamwidth, Vertical	40 degrees
Front to Back Ratio (F/B)	25 dB

Gain, Mid Frequency	14 dBi
VSWR	2.0:1
Return Loss	-10 dB
Port to Port Isolation, Max (dB)	25 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	5 lbs 2.3 kg
Wind Velocity Operational	90 mph 145 km/h

Wind Velocity Survival Rating	125 mph 201 km/h
Mechanical Configuration	FPD1-3-5
Axial Force (FA)	49 lbs 220 N
Operating Temperature Range	-40 to +60 C

Regulatory Compliance

Industry Canada Compliance	undeclared
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard
Gross Weight	8 lbs 1.8 kg

Dimensions, L x W x H	12 x 12 x 6in 40 x 40 x 12 cm
Shipping Volume	0.7 cu ft 0.02 cu m

Contact RadioWaves for alternate RF interface options.

TECHNICAL DRAWINGS

