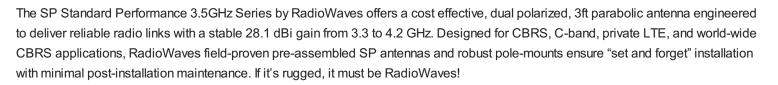


radiowaves

# 0.9 m | 3 ft Standard Performance Parabolic Reflector Antenna, Dual-polarized, 3.3-4.2GHz

# SPD3-3.5



#### Features and Benefits

- Gain of up to 28.1 dBi with low VSWR and high port isolation across the entire 3.3-4.2 GHz band
- One 2 x2 MIMO antenna that covers CBRS, C-band, and world-wide 5G applications
- · Fully powder-coated with rugged hardware built to survive the elements
- Optional Accessories:
  - Conical radome to reduce wind loading
  - Side-strut kits to improve wind survival and operability
- Rugged Dual N-type Connectors for horizontal and vertical polarization
- · Reduced interference with 38 dB minimum front to back and suppressed side lobes
- · Fully Pre-assembled at the Factory Simplifies installation and guarantees "factory-tested" quality

## SPECIFICATIONS

#### General

Antenna Type	Standard Performance Parabolic Reflector Antenna
Size, nominal	3 ft   0.9 m
Polarization	Dual

NS (append suffix to model number)

# Electrical

Operating Frequency Band	3.3 - 4.2 GHz
Half Power Beamwidth, Horizontal	8 degrees
Half Power Beamwidth, Vertical	8 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	34 dB

Gain, Low Frequency	27.3 dBi
Gain, Mid Frequency	28 dBi
Gain, High Frequency	28.2 dBi
VSWR	1.5:1
Return Loss	-14 dB

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#### Mechanical

Fine Azimuth Adjustment	+/- 10 degrees	
Fine Elevation Adjustment	+/- 25 degrees	
Mounting Pipe Diameter, Min	4.5 inch   11.4 cm	
Mounting Pipe Diameter, Max	4.5 inch   11.4 cm	
Net Weight	35 lbs   15.8 kg	43 lbs   19.4 Kg with RD radome
Wind Velocity Operational	90 mph   145 km/h	
Wind Velocity Survival Rating	125 mph   201 km/h	

Mechanical Configuration	SP3	
Axial Force (FA)	492 lbs   2189 N	271 lbs   1206 Nm with RD radome
Side Force (FS)	40 lbs   178 N	64 lbs   285 Nm with RD radome
Twisting Moment (MT)	545 ft-lbs   739 Nm	394 lbs   534 Nm with RD radome
Operating Temperature Range	-40 to +60 C	
Max Pressure, PSIG, (if waveguide interface)	na	

# **Regulatory Compliance**

FCC	undeclared
Industry Canada Compliance	undeclared

ETSI	undeclared
RoHS-compliant	Yes

# **Shipping Information**

Package Type	Wood Crate
Gross Weight	78 lbs   35.3 kg

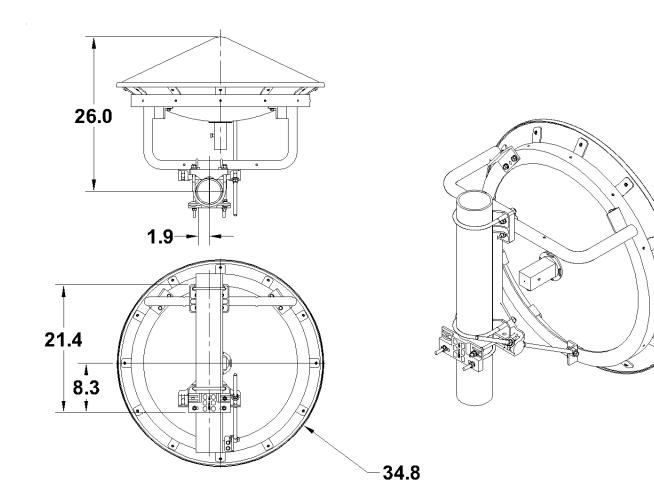
Dimensions, L x W x H	40 x 17 x 44in   101 x 43 x 140 cm
Shipping Volume	17.31 cu ft   0.49 cu m

\*Additional OEM interfaces and adapters may be available. Contact RadioWaves for a complete and current list of available adapters.



# THE LEADER IN MICROWAVE ANTENNA INNOVATION

## **TECHNICAL DRAWINGS**





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