1.2 m | 4 ft Standard Performance Parabolic Reflector Antenna, Single-polarized, 7.125-8.5GHz

SP4-7.7



The SP Standard Performance Series by RadioWaves offers a full line of cost effective standard performance parabolic antennas engineered to deliver reliable radio links. Designed for both unlicensed and licensed band applications, RadioWaves field-proven pre-assembled SP antennas and robust pole-mounts ensure “set and forget” installation with minimal post-installation maintenance. If it’s rugged, it must be RadioWaves!

FEATURES AND BENEFITS
O Standard Performance Parabolic Antennas – Excellent performance for a wide range of licensed and unlicensed applications
O Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality

SPECIFICATIONS

General

Antenna Type	Standard Performance Parabolic Reflector Antenna
Size, nominal	4 ft | 1.2 m
Polarization	Single

Standard RF Connector Type	CPR112G
Standard RF Connector Suffix	RS (append suffix to model number)

Electrical

Operating Frequency Band	7.125 - 8.5 GHz
Half Power Beamwidth, Horizontal	2.4 degrees
Half Power Beamwidth, Vertical	2.4 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	45 dB

Gain, Low Frequency	36.6 dBi
Gain, Mid Frequency	37 dBi
Gain, High Frequency	37.4 dBi
VSWR	1.37:1
Return Loss	-16.1 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	60 lbs | 27 kg	80 lbs | 36 Kg with RD radome
Wind Velocity Operational	90 mph | 145 km/h	
Wind Velocity Survival Rating	125 mph | 201 km/h	

Mechanical Configuration	SP4	
Axial Force (FA)	855 lbs | 3803 N	469 lbs | 2087 Nm with RD radome
Side Force (FS)	45 lbs | 200 N	93 lbs | 414 Nm with RD radome
Twisting Moment (MT)	1120 ft-lbs | 1518 Nm	784 lbs | 1063 Nm with RD radome
Operating Temperature Range	-40 to +60 C	
Max Pressure, PSIG, (if waveguide interface)	5	

Regulatory Compliance

FCC	undeclared
Industry Canada Compliance	undeclared

ETSI	302217 R1 C1
RoHS-compliant	Yes

Shipping Information

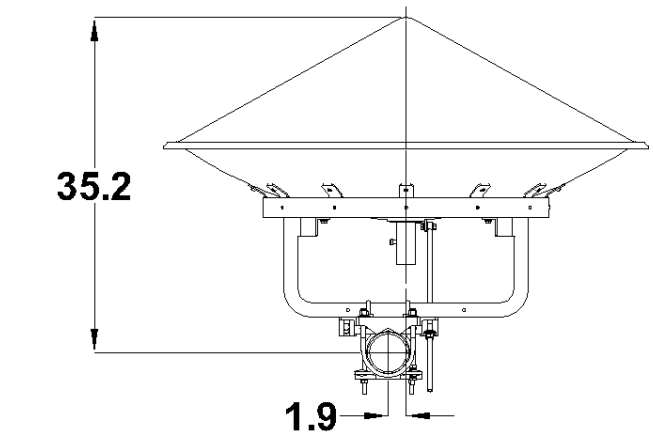
Package Type	Wood Crate
Gross Weight	126 lbs | 57.15 kg

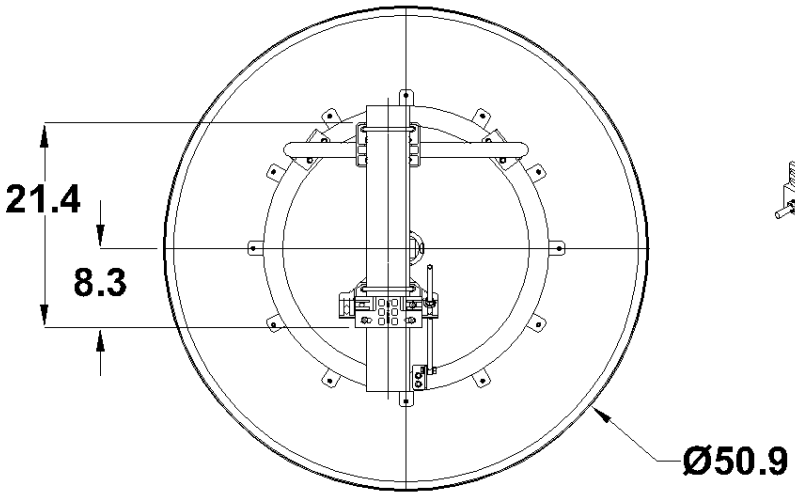
Dimensions, L x W x H	59 x 19 x 60in | 150 x 48 x 152 cm
Shipping Volume	38.92 cu ft | 1.1 cu m

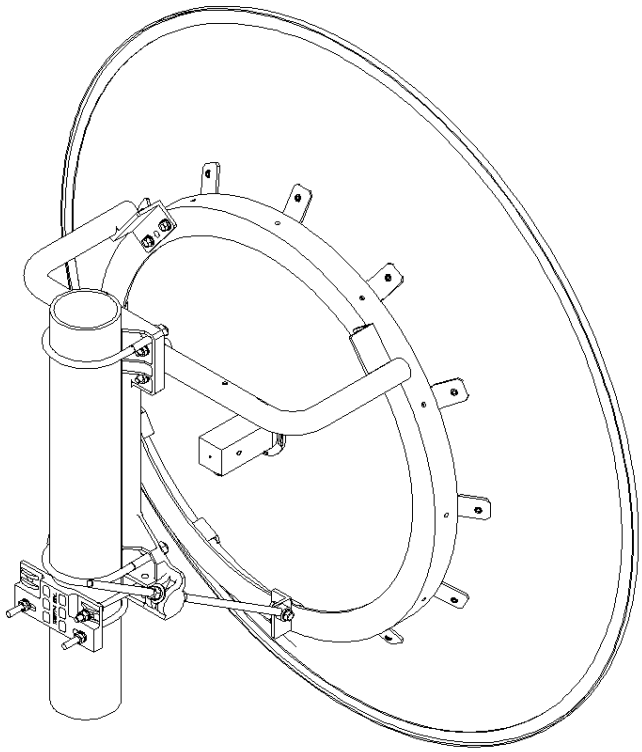
*Additional OEM interfaces and adapters may be available. Contact RadioWaves for a complete and current list of available adapters.

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TECHNICAL DRAWINGS







SP4

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