

SP8-2.1

2.4 M | 8 FT STANDARD PERFORMANCE PARABOLIC REFLECTOR ANTENNA, SINGLE-POLARIZED, 1.9-2.3GHZ

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

- Standard Performance Parabolic Antennas – Excellent performance for a wide range of licensed and unlicensed applications
- Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory-tested” quality
- Warranty – Industry leading 7-year warranty

SPECIFICATIONS

General

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|---------------|--|
| Antenna Type | Standard Performance Parabolic Reflector Antenna |
| Size, nominal | 8 ft 2.4 m |
| Polarization | Single |

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|------------------------------|------------------------------------|
| Standard RF Connector Type | N-Female |
| Standard RF Connector Suffix | NS (append suffix to model number) |

Electrical

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|-----------------------------------|---------------|
| Operating Frequency Band | 1.9 - 2.3 GHz |
| Half Power Beamwidth, Horizontal | 4.3 degrees |
| Half Power Beamwidth, Vertical | 4.3 degrees |
| Cross-Polarization Discrimination | 30 dB |
| Front to Back Ratio (F/B) | 39 dB |

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| Gain, Low Frequency | 30.6 dBi |
| Gain, Mid Frequency | 31.5 dBi |
| Gain, High Frequency | 32.3 dBi |
| VSWR | 1.5:1 |
| Return Loss | -14 dB |

Mechanical

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|-------------------------------|--------------------|-----------------------------------|
| Fine Azimuth Adjustment | +/- 5 degrees | |
| Fine Elevation Adjustment | +/- 5 degrees | |
| Mounting Pipe Diameter, Min | 4.5 inch 11.4 cm | |
| Mounting Pipe Diameter, Max | 4.5 inch 11.4 cm | |
| Net Weight | 165 lbs 74.3 kg | 250 lbs 113.4 Kg with RD radome |
| Wind Velocity Operational | 90 mph 145 km/h | |
| Wind Velocity Survival Rating | 125 mph 201 km/h | |

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| Mechanical Configuration | SP8 | |
| Axial Force (FA) | 3795 lbs 16940 N | 2773 lbs 12334 Nm with RD radome |
| Side Force (FS) | 1115 lbs 4980 N | 1422 lbs 6325 Nm with RD radome |
| Twisting Moment (MT) | 4800 ft-lbs 6508 Nm | 4400 lbs 5966 Nm with RD radome |
| Operating Temperature Range | -40 to +60 C | |
| Max Pressure, PSIG, (if waveguide interface) | na | |

Regulatory Compliance

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|----------------------------|-------------|
| FCC | undeclared |
| Industry Canada Compliance | SRSP302.0 D |

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|----------------|------------|
| ETSI | undeclared |
| RoHS-compliant | Yes |

Shipping Information

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|--------------|--------------------|
| Package Type | Wood Crate |
| Gross Weight | 878 lbs 398.2 kg |

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|-----------------------|--------------------------------------|
| Dimensions, L x W x H | 102 x 60 x 91in 259 x 152 x 231 cm |
| Shipping Volume | 322.29 cu ft 9.13 cu m |

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

TECHNICAL DRAWINGS

