

1.2 m | 4 ft Sentinel® High Performance Antenna, dual-polarized, 7.125– 8.500 GHz, CPR112G, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

| Product Classification | |
|--|---|
| Product Type | Microwave antenna |
| Product Brand | Sentinel® |
| General Specifications | |
| Antenna Type | SHPX - Sentinel® High Performance Antenna, dual- polarized |
| Polarization | Dual |
| Antenna Input | CPR112G |
| Antenna Color | White |
| Reflector Construction | One-piece reflector |
| Radome Color | Gray |
| Radome Material | Polymer |
| Flash Included | No |
| Side Struts, Included | 1 inboard |
| Side Struts, Optional | 1 inboard |
| Dimensions | |
| Diameter, nominal | 1.2 m 4 ft |
| Electrical Specifications | |
| Operating Frequency Band | 7.125 – 8.500 GHz |
| Gain, Low Band | 36.7 dBi |
| Gain, Mid Band | 37.4 dBi |
| Gain, Top Band | 38.1 dBi |
| Boresite Cross Polarization Discrimination (XPD) | 40 dB |

Page 1 of 6

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or [™] are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: October 3, 2021



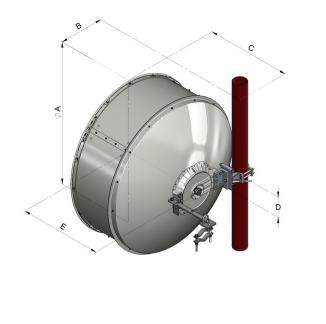
| Front-to-Back Ratio | 70 dB |
|--|---------------------------------------|
| | |
| Beamwidth, Horizontal | 2.2 ° |
| Beamwidth, Vertical | 2.2 ° |
| Return Loss | 23.1 dB |
| VSWR | 1.15 |
| Radiation Pattern Envelope Reference (RPE) | 7412 |
| Electrical Compliance | ACMA FX03_7p5a ETSI 302 217 Class 3 |
| Cross Polarization Discrimination (XPD) Electrical Compliance | ETSI EN 302217 XPD Category 3 |
| | |
| Mechanical Specifications | |
| Mechanical Specifications Compatible Mounting Pipe Diameter | 115 mm 4.5 in |
| | 115 mm 4.5 in ±15° |
| Compatible Mounting Pipe Diameter | |
| Compatible Mounting Pipe Diameter Fine Azimuth Adjustment Range | ±15° |

Page 2 of 6

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: October 3, 2021



Antenna Dimensions and Mounting Information



| | Dim | ensions in in | ches (mm) | | |
|----------------------|-------------|---------------|------------|-----------|------------|
| Antenna size, ft (m) | A | В | С | D | E |
| 4 (1.2) | 50.8 (1291) | 16 (407) | 30.2 (767) | 7.2 (183) | 29.5 (748) |

Wind Forces at Wind Velocity Survival Rating

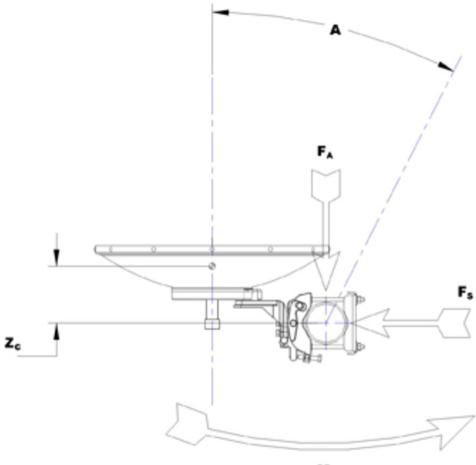
| Axial Force (FA) | 5326 N 1,197.333 lbf |
|---------------------------------------|-----------------------------|
| Side Force (FS) | 2638 N 593.046 lbf |
| Twisting Moment (MT) | 2162 N-m 19,135.312 in lb |
| Force on Inboard Strut Side | 2862 N 643.403 lbf |
| Zcg without Ice | 43 mm 1.693 in |
| Zcg with 1/2 in (12 mm) Radial Ice | 284 mm 11.181 in |
| Weight with 1/2 in (12 mm) Radial Ice | 74 kg 163.142 lb |

Page 3 of 6

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or [™] are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: October 3, 2021



Wind Forces at Wind Velocity Survival Rating Image



M_T

Packaging and Weights 1520 mm | 50.843 in Height, packed Width, packed Length, packed Packaging Type Volume Weight, gross Weight, net

Regulatory Compliance/Certifications

| 1520 mm 59.843 in | | |
|---------------------|--|--|
| 380 mm 14.961 in | | |
| 1360 mm 53.543 in | | |
| Standard pack | | |
| 0.8 m³ 28.252 ft³ | | |
| 59 kg 130.073 lb | | |
| 32 kg 70.548 lb | | |

Page 4 of 6

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: October 3, 2021



Agency

REACH-SVHC

Classification

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

* Footnotes

| Operating Frequency Band | Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order. |
|---|---|
| Gain, Mid Band | For a given frequency band, gain is primarily a function of antenna size. The gain of Andrew antennas is determined by either gain by comparison or by computer integration of the measured antenna patterns. |
| Boresite Cross Polarization Discrimination (XPD) | The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam. |
| Front-to-Back Ratio | Denotes highest radiation relative to the main beam, at 180° ±40°, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise. |
| Return Loss | The figure that indicates the proportion of radio waves incident upon the antenna that are rejected as a ratio of those that are accepted. |
| VSWR | Maximum; is the guaranteed Peak Voltage-Standing-Wave- Ratio within the operating band. |
| Radiation Pattern Envelope Reference (RPE) | Radiation patterns define an antenna's ability to discriminate against unwanted signals. Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an angular accuracy of +/-1° throughout |
| Cross Polarization Discrimination (XPD) Electrical Compliance | The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam. |
| Wind Speed, operational | For VHLP(X), SHP(X), HX and USX antennas, the wind speed where the maximum antenna deflection is 0.3 x the 3 dB beam width of the antenna. For other antennas, it is defined as a deflection is equal to or less than 0.1 degrees. |
| Wind Speed, survival | The maximum wind speed the antenna, including mounts and radomes, where applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of radial ice. |

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or [™] are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: October 3, 2021

COMMSCOPE®

SHPX4-7W-6WH

| Axial Force (FA) | Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe. |
|----------------------|---|
| Side Force (FS) | Maximum side force exerted on the mounting pipe as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe. |
| Twisting Moment (MT) | Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe. |
| Packaging Type | Andrew standard packing is suitable for export. Antennas are shipped as standard in totally recyclable cardboard or wire- bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options. |

Page 6 of 6

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: October 3, 2021

