Base Product



0.6 m | 2 ft Sentinel® High Performance Antenna, dual-polarized, 24.250-26.500 GHz

Product Classification

Product Type Microwave antenna

Product Brand Sentinel®

General Specifications

Antenna Type SHPX - Sentinel® High Performance Antenna, dual-

polarized

30 dB

Polarization Dual

Side Struts, Included

Side Struts, Optional 0

Dimensions

Beamwidth, Vertical

0.6 m | 2 ft Diameter, nominal

Electrical Specifications

Boresite Cross Polarization Discrimination (XPD)

24.250 - 26.500 GHz **Operating Frequency Band**

Gain, Low Band 41.1 dBi 41.6 dBi Gain, Mid Band

42.1 dBi Gain, Top Band

Front-to-Back Ratio 74 dB

1.5° Beamwidth, Horizontal

1.5°

17.7 dB **Return Loss**

VSWR 1.3

COMMSCOPE®

Radiation Pattern Envelope Reference (RPE) 7260B

Electrical Compliance Brazil Anatel Class 2 | Canada SRSP

324.25 | ETSI 302 217 Class 4 | US FCC Part

101A

Cross Polarization Discrimination (XPD) Electrical Compliance ETSI EN 302217 XPD Category 2

Mechanical Specifications

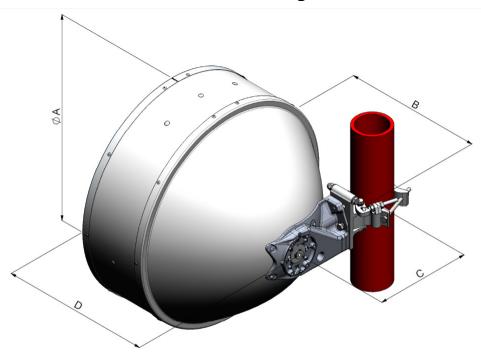
Compatible Mounting Pipe Diameter 50 mm-115 mm | 2.0 in-4.5 in

Fine Azimuth Adjustment Range $\pm 15^{\circ}$ Fine Elevation Adjustment Range $\pm 15^{\circ}$

 Wind Speed, operational
 201 km/h | 124.896 mph

 Wind Speed, survival
 250 km/h | 155.343 mph

Antenna Dimensions and Mounting Information



Dimension in Inches(mm)				
Antenna size, ft(m)	Α	В	С	D
2(0.6)	26.1(664)	17.4(441)	12.1(307)	18.8(478)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)

Angle a for MT Max

Side Force (FS)

Twisting Moment (MT)

Zcg without Ice

Zcg with 1/2 in (12 mm) Radial Ice

Weight with 1/2 in (12 mm) Radial Ice

1290 N | 290.004 lbf

0°

639 N | 143.653 lbf

395 N-m | 3,496.045 in lb

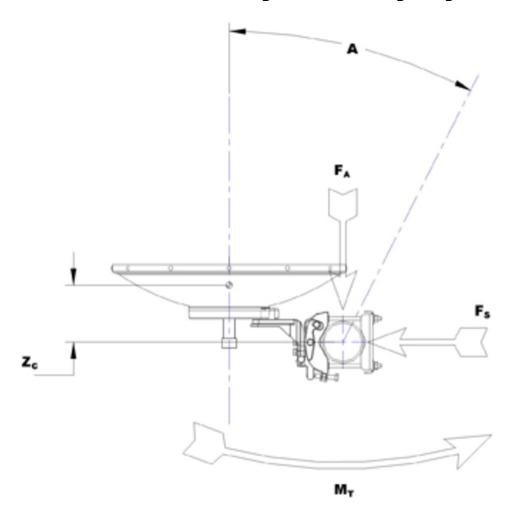
187 mm | 7.362 in

185 mm | 7.283 in

34 kg | 74.957 lb



Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net 11 kg | 24.251 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

* Footnotes

Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.

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Side Force (FS)

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. For VHLP(X), SHP(X), HX and USX antennas, the wind speed Wind Speed, operational 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. Maximum forces exerted on a supporting structure as a Axial Force (FA) 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

Maximum side force exerted on the mounting pipe as a result of wind from the most critical direction for this

mounting pipe.

Twisting Moment (MT)

parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

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.