## 苏州启道电子 - 康普安德鲁授权代理商



0.3 m | 1 ft Sentinel® High Performance Antenna, single-polarized, 31.000–33.400 GHz

Product Classification			
Product Type	Microwave antenna		
Product Brand	Sentinel®		
General Specifications			
Antenna Type	SHP - Sentinel® High Performance Antenna, single- polarized		
Polarization	Single		
Side Struts, Included	0		
Side Struts, Optional	0		
Dimensions			
Diameter, nominal	0.3 m   1 ft		
Electrical Specifications			
Operating Frequency Band	31.000 – 33.400 GHz		
Gain, Low Band	38.5 dBi		
Gain, Mid Band	38.7 dBi		
Gain, Top Band	38.9 dBi		
Boresite Cross Polarization Discrimination (XPD)	30 dB		
Front-to-Back Ratio	67 dB		
Beamwidth, Horizontal	1.9 °		
Beamwidth, Vertical	1.9 °		
Return Loss	17.7 dB		
VSWR	1.3		
Radiation Pattern Envelope Reference (RPE)	7281B Page 1 o		

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# SHP1-32/B

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#### **Electrical Compliance**

**Cross Polarization Discrimination (XPD) Electrical Compliance** 

### Mechanical Specifications

**Compatible Mounting Pipe Diameter** 

Fine Azimuth Adjustment Range

**Fine Elevation Adjustment Range** 

Wind Speed, operational

Wind Speed, survival

Brazil Anatel Class 2 | Canada SRSP 321.8 Part B | ETSI 302 217 Class 4 | US FCC Part 101A

ETSI EN 302217 XPD Category 2

50 mm-115 mm | 2.0 in-4.5 in ±15°

±15°

0

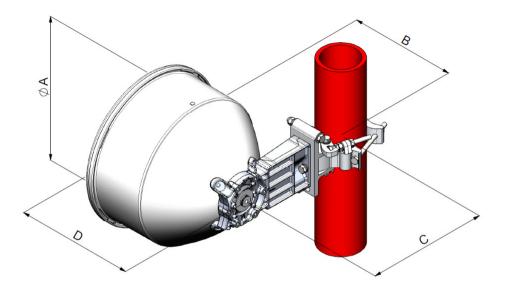
180 km/h | 111.847 mph

250 km/h | 155.343 mph

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Antenna Dimensions and Mounting Information



Dimension in Inches(mm)				
Antenna size, ft(m)	A	В	С	D
1(0.3)	15.3(389)	11.3(287)	12.8(326)	12.6(319)

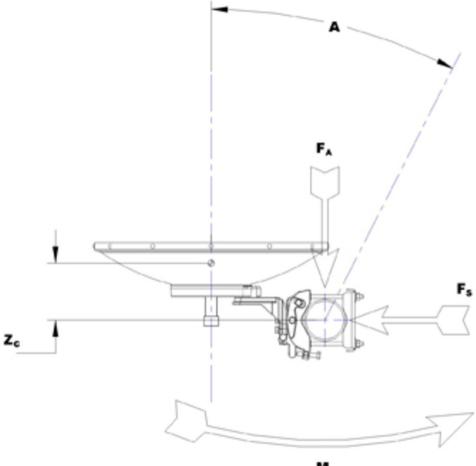
## Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	446 N   100.265 lbf
Angle a for MT Max	0 °
Side Force (FS)	222 N   49.908 lbf
Twisting Moment (MT)	144 N-m   1,274.507 in lb
Zcg without Ice	74 mm   2.913 in
Zcg with 1/2 in (12 mm) Radial Ice	111 mm   4.37 in
Weight with 1/2 in (12 mm) Radial Ice	19 kg   41.888 lb

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Wind Forces at Wind Velocity Survival Rating Image



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## Packaging and Weights

#### Weight, net

6 kg | 13.228 lb

### Regulatory Compliance/Certifications

#### Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



Agency

### \* Footnotes

#### **Operating Frequency Band**

Bands correspond with CCIR recommendations or common

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	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.
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

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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.

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.

**Twisting Moment (MT)** 

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