

0.3 m | 1 ft Sentinel® High Performance Antenna, dual-polarized, 24.25–26.5 GHz, PBR flange, white antenna, grey radome

Product Classification			
Product Type	Microwave antenna		
Product Brand	Sentinel®		
General Specifications			
Antenna Type	SHPX - Sentinel® High Performance Antenna, dual- polarized		
Polarization	Dual		
Antenna Input	PBR220		
Antenna Color	White		
Reflector Construction	One-piece reflector		
Radome Color	Gray		
Radome Material	Polymer		
Flash Included	No		
Side Struts, Included	0		
Side Struts, Optional	0		
Dimensions			
Diameter, nominal	0.3 m 1 ft		
Electrical Specifications			
Operating Frequency Band	24.250 – 26.500 GHz		
Gain, Low Band	36.4 dBi		
Gain, Mid Band	36.8 dBi		
Gain, Top Band	37.3 dBi		
Boresite Cross Polarization Discrimination (XPD)	30 dB		
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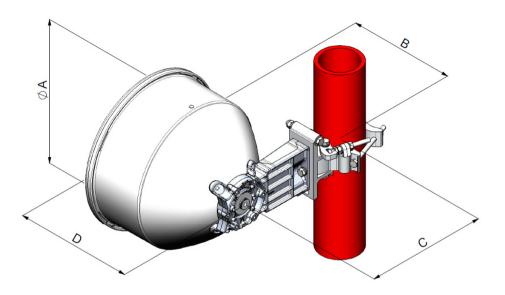


Front-to-Back Ratio	69 dB
Beamwidth, Horizontal	2.4 °
Beamwidth, Vertical	2.4 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7278B
Electrical Compliance	Brazil Anatel Class 2 Canada SRSP 321.8 Part B ETSI 302 217 Class 4
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 2
Mechanical Specifications	
Mechanical Specifications Compatible Mounting Pipe Diameter	50 mm-115 mm 2.0 in-4.5 in
·	50 mm-115 mm 2.0 in-4.5 in ±15°
Compatible Mounting Pipe Diameter	
Compatible Mounting Pipe Diameter Fine Azimuth Adjustment Range	±15°
Compatible Mounting Pipe Diameter Fine Azimuth Adjustment Range Fine Elevation Adjustment Range	±15° ±15°

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Antenna Dimensions and Mounting Information



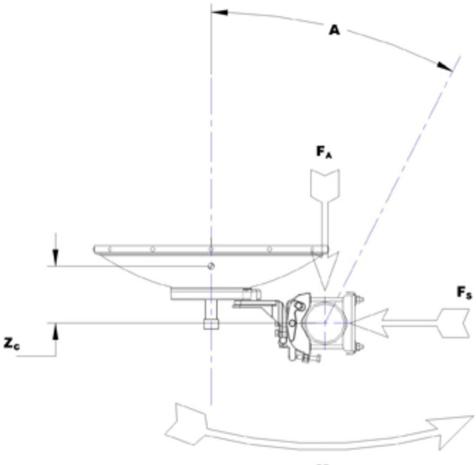
Dimension in Inches(mm)				
Antenna size, ft(m)	A	В	С	D
1(0.3)	15.3(389)	11.3(287)	12.8(326)	12.6(319)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	446 N 100.265 lbf
Angle α 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



MT

Packaging and Weights Height, packed 450 mm | 17.717 in Width, packed Length, packed Packaging Type Standard pack Volume 0.1 m³ | 3.531 ft³ Weight, gross 9 kg | 19.842 lb Weight, net 6 kg | 13.228 lb

* Footnotes

400 mm | 15.748 in 400 mm | 15.748 in

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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.
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.

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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.

