

0.6 m | 2 ft Sentinel® High Performance Antenna, dual-polarized, 27.5–29.5 GHz, UBR 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	UBR320
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	0.6 m 2 ft
Electrical Specifications	
Operating Frequency Band	27.500 – 29.500 GHz
Gain, Low Band	42.3 dBi
Gain, Mid Band	42.6 dBi
Gain, Top Band	43 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
	Page 1 of 6



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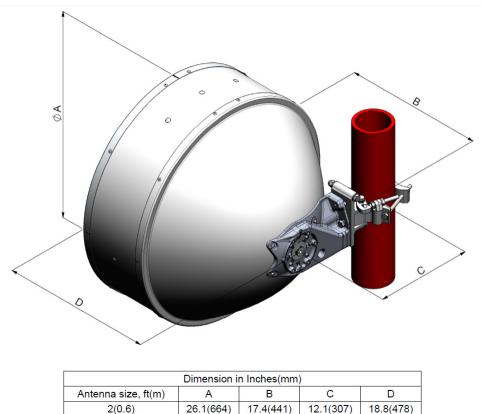
Front-to-Back Ratio	76 dB
Beamwidth, Horizontal	1.2 °
Beamwidth, Vertical	1.2 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7262B
Electrical Compliance	Brazil Anatel Class 2 ETSI 302 217 Class 4
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 2
Mechanical Specifications	
Compatible Mounting Pipe Diameter	50 mm-115 mm 2.0 in-4.5 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±15°
Wind Speed, operational	180 km/h 111.847 mph
Wind Speed, survival	250 km/h 155.343 mph

Page 2 of 6



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Antenna Dimensions and Mounting Information



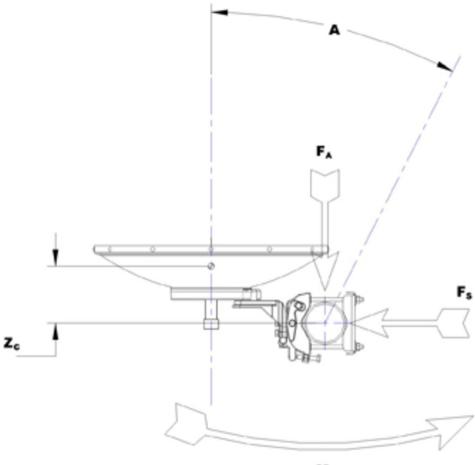
Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	1290 N 290.004 lbf
Angle α for MT Max	0 °
Side Force (FS)	639 N 143.653 lbf
Twisting Moment (MT)	3954 N-m 34,995.848 in lb
Zcg without Ice	187 mm 7.362 in
Zcg with 1/2 in (12 mm) Radial Ice	185 mm 7.283 in
Weight with 1/2 in (12 mm) Radial Ice	34 kg 74.957 lb

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Page 3 of 6

Wind Forces at Wind Velocity Survival Rating Image



MT

Packaging and Weights Height, packed 580 mm | 22.835 in 7 Width, packed 7 Length, packed Packaging Type S Volume 0 Weight, gross 1 1 Weight, net

Regulatory Compliance/Certifications

'35 mm	28.937 in			
'35 mm	28.937 in			
Standard pack				
) m ³ 0 ft ³				
6 kg 35	.274 lb			
1 kg 24	.251 lb			

Page 4 of 6



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Agency	Classification		
CHINA-ROHS	Above maximum concentration value	Above maximum concentration value	
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system		
ROHS	Compliant/Exempted		
UK-ROHS	Compliant/Exempted		
50			
* Footnotes			
Operating Frequency B	and	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 Polariza	ation 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 Enve	lope 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 Disc	crimination (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, operation	al	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	

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Page 5 of 6



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 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.



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