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1.8m | 6ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, 4.400 – 5.000 GHz, white, PDR48 flange

Product Classification	
Product Type	Microwave antenna
Product Brand	Sentinel®
General Specifications	
Antenna Type	USX - Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized
Polarization	Dual
Antenna Input	PDR48
Antenna Color	White
Reflector Construction	One-piece reflector
Radome Color	Gray
Radome Material	Fabric
Side Struts, Included	1
Side Struts, Optional	1
Dimensions	
Diameter, nominal	1.8 m 6 ft
Electrical Specifications	
Operating Frequency Band	4.400 – 5.000 GHz
Gain, Low Band	35.7 dBi
Gain, Mid Band	36.3 dBi
Gain, Top Band	36.8 dBi
Boresite Cross Polarization Discrimination (XPD)	40 dB
Front-to-Back Ratio	68 dB
Beamwidth, Horizontal	2.6 °
Beamwidth, Vertical	2.6 °

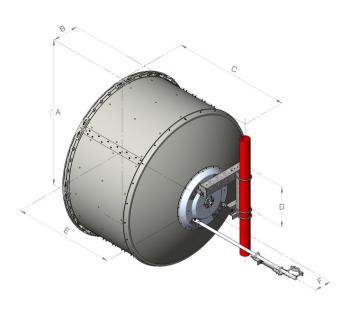
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Return Loss	23 dB
VSWR	1.15
Radiation Pattern Envelope Reference (RPE)	7384
Electrical Compliance	ETSI 302 217 Class 3
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 3
Electrical Specifications, Band 2	
Operating Frequency Band	4.400 - 5.000 GHz
Mechanical Specifications	
Compatible Mounting Pipe Diameter	115 mm-120 mm 4.5 in-4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±5°
Wind Speed, operational	200 km/h 124.274 mph
Wind Speed, survival	200 km/h 124.274 mph



Antenna Dimensions and Mounting Information



	Dimensio	ons in inch	nes (mm)			
Antenna size, ft (m)	A	в	с	D	Е	F
6 (1.8)	74.8 (1899)	13.4 (340)	59.8 (1520)	20.9 (530)	51.8 (1315)	8.4 (214)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	6960 N 1,564.671 lbf
Angle α for MT Max	-130 °
Side Force (FS)	1566 N 352.051 lbf
Twisting Moment (MT)	4948 N-m 43,793.488 in lb
Force on Inboard Strut Side	6187 N 1,390.893 lbf
Zcg without Ice	498 mm 19.606 in
Zcg with 1/2 in (12 mm) Radial Ice	689 mm 27.126 in
Weight with 1/2 in (12 mm) Radial Ice	291 kg 641.544 lb

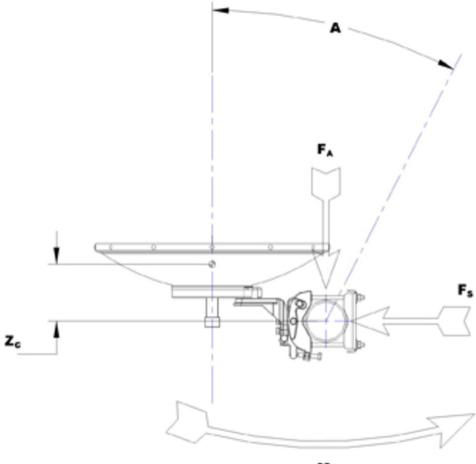
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Wind Forces at Wind Velocity Survival Rating Image



MT

Packaging and Weights Height, packed Width, packed Length, packed Packaging Type Volume Weight, gross Weight, net

Regulatory Compliance/Certifications

2128 mm 83.78 in
544 mm 21.417 in
1895 mm 74.606 in
Standard pack
2.2 m³ 77.692 ft³
150 kg 330.693 lb
90 kg 198.416 lb

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Agency

Classification

Agency	Classification		
CHINA-ROHS	Below maximum concentration value		
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance		
ROHS	Compliant		
UK-ROHS	Compliant		
* Footnotes			
Operating Frequency Ba	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	tion 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 Envel	ope 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	rimination (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, operationa	ıl	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.	

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USX6-4-4WH

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.

