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1.8m | 6ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, 5.925 – 7.125 GHz, white, CPR137G 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	CPR137G	
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	5.925 – 7.125 GHz	
Gain, Low Band	38.3 dBi	
Gain, Mid Band	38.8 dBi	
Gain, Top Band	39.3 dBi	
Boresite Cross Polarization Discrimination (XPD)	40 dB	
Front-to-Back Ratio	76 dB	
Beamwidth, Horizontal	1.8 °	
Beamwidth, Vertical	1.8 °	

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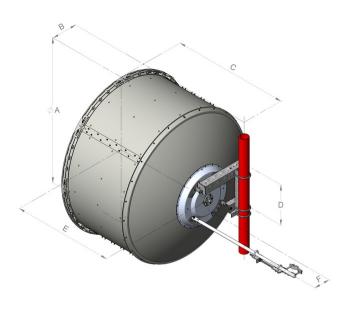


USX6-6W-6WH

Return Loss	26 dB
VSWR	1.1
Radiation Pattern Envelope Reference (RPE)	7373
Electrical Compliance	ACMA FX03_6b, 6p7b Brazil Anatel Class 2 ETSI 302 217 Class 4 IC 3059A IC 3064A US FCC Part 101A
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 3
Electrical Specifications, Band 2	
Operating Frequency Band	5.725 – 5.850 GHz
Gain, Mid Band	37.9 dBi
Beamwidth, Horizontal	2 °
Beamwidth, Vertical	2 °
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)	А	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)	2049 N 460.634 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

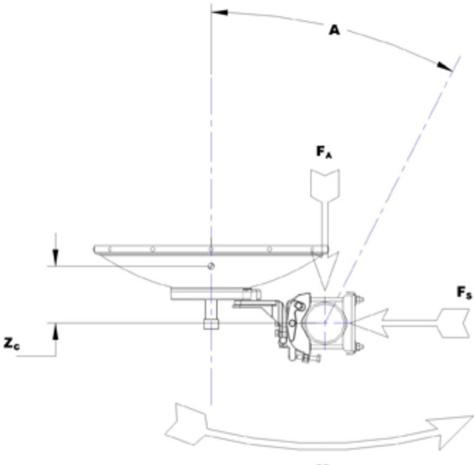
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Wind Forces at Wind Velocity Survival Rating Image



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Packaging and Weights	
Height, packed	2128 mm 83.78 in
Width, packed	544 mm 21.417 in
Length, packed	1895 mm 74.606 in
Packaging Type	Standard pack
Volume	2.194 m ³ 77.48 ft ³
Weight, gross	150 kg 330.693 lb
Weight, net	90 kg 198.416 lb

Regulatory Compliance/Certifications

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<u>USX6-6W-6W</u>H

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ROHS	Compliant
UK-ROHS	Compliant



* Footnotes

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 $0.3 \times 10^{-3} \text{ dB}$ 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

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	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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