

1.8m | 6ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, white, 7.125 – 8.500 GHz, PDR84 flange

Product TypeMicrowave antennaProduct BrandSentinel®General SpecificationsUSX - Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized				
General Specifications     Antenna Type     USX - Sentinel® Ultra High Performance, Super				
Antenna Type USX - Sentinel® Ultra High Performance, Super				
Polarization Dual				
Antenna Input PDR84				
Antenna Color White				
Reflector Construction One-piece reflector				
Radome Color Gray				
Radome Material Fabric				
Side Struts, Included 1				
Side Struts, Optional 1				
Dimensions				
Diameter, nominal1.8 m   6 ft				
Electrical Specifications				
<b>Operating Frequency Band</b> 7.125 – 8.500 GHz				
Gain, Low Band40 dBi				
Gain, Mid Band40.6 dBi				
Gain, Top Band41 dBi				
Boresite Cross Polarization Discrimination (XPD) 40 dB				
Front-to-Back Ratio75 dB				
Beamwidth, Horizontal 1.5 °				
Beamwidth, Vertical 1.5 °				

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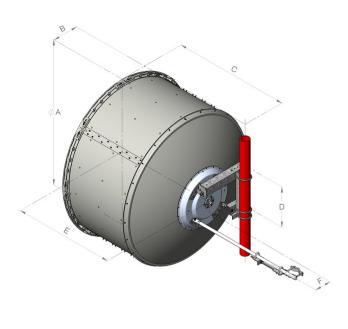


USX6-7W-4WH

Return Loss	26 dB		
VSWR	1.1		
Radiation Pattern Envelope Reference (RPE)	7374		
Electrical Compliance	ACMA FX03_7p5a   Brazil Anatel Class 2   ETSI 302 217 Class 4		
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 3		
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



Dimensions in inches (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)	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

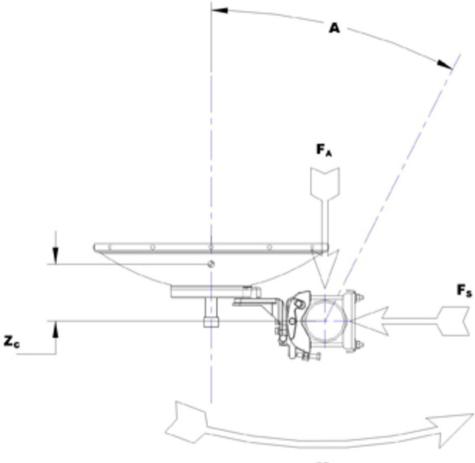
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Wind Forces at Wind Velocity Survival Rating Image



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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 ir
Packaging Type	Standard pack
Volume	2.2 m³   77.692 ft³
Weight, gross	150 kg   330.693 lb
Weight, net	90 kg   198.416 lb

### Regulatory Compliance/Certifications

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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	nd	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 Polarizat	ion 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 Envelo	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 Discr	imination (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.

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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.

