

3.6m | 12ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, 7.125 – 8.500 GHz, CPR112G flange

Microwave antenna
USX - Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized
Dual
CPR112G
Gray
Two-piece reflector
Gray
Fabric
Yes
2
3
3.6 m 12 ft
7.125 – 8.500 GHz
46 dBi
46.8 dBi
47.6 dBi
40 dB
80 dB
0.8 °
0.8 °

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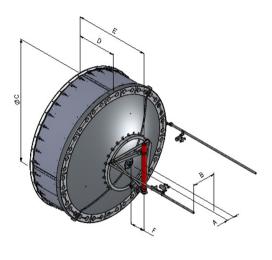
VSWR1.1Radiation Pattern Envelope Reference (RPE)7434Electrical ComplianceACMA FX03_7p5a Brazil Anatel Class 2 ETSI 302 217 Class 3Cross Polarization Discrimination (XPD) Electrical ComplianceETSI EN 302217 XPD Category 3Mechanical Specifications115 mm 4.5 in
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2 ETSI 302 217 Class 3 Cross Polarization Discrimination (XPD) Electrical Compliance ETSI EN 302217 XPD Category 3 Mechanical Specifications ETSI EN 302217 XPD Category 3
Mechanical Specifications
Compatible Mounting Pipe Diameter115 mm 4.5 in
Fine Azimuth Adjustment Range±5°
Fine Elevation Adjustment Range±5°
Wind Speed, operational180 km/h 111.847 mph
Wind Speed, survival 200 km/h 124.274 mph

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Antenna Dimensions and Mounting Information

HX/USX12



	Dimer	isions in	inches (mm)		
Antenna size, ft (m)	А	в	с	D	E	F
12 (3.6)	8.5 (216)	28.2 (715)	149.3 (3793)	46.3 (1177)	81.5 (2069)	10.6 (269)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	26750 N 6,013.641 lbf
Angle α for MT Max	-120 °
Side Force (FS)	9450 N 2,124.445 lbf
Twisting Moment (MT)	-17550 N-m -155,330.59
Force on Inboard Strut Side	13000 N 2,922.517 lbf
Force on Outboard Strut Side	4500 N 1,011.64 lbf
Zcg without Ice	708 mm 27.874 in
Zcg with 1/2 in (12 mm) Radial Ice	854 mm 33.622 in

lbf 330.594 in lb 7 lbf bf

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USX12-7W-6GF

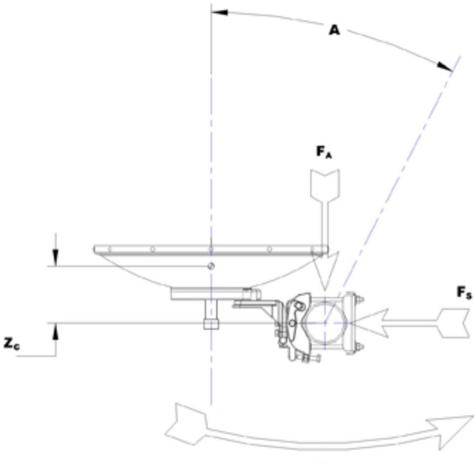
Weight with 1/2 in (12 mm) Radial Ice

656 kg | 1,446.231 lb

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Wind Forces at Wind Velocity Survival Rating Image



MT

Packaging and Weights 1530 mm | 60.236 in Height, packed Width, packed Length, packed Packaging Type Volume Weight, gross Weight, net

Regulatory Compliance/Certifications

1000 11111 00.200 11					
2140 mm 84.252 in					
3990 mm 157.087 in					
Standard pack					
13 m³ 459.091 ft³					
661 kg 1,457.254 lb					
361 kg 795.868 lb					

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Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system

* 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 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.

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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.

