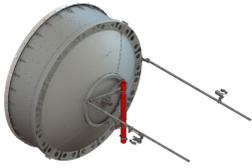


USX10-6W-6GF



3.0m | 10ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, 5.925 – 7.125 GHz, grey, CPR137G flange

Product Classification

Product Type Microwave antenna

General Specifications

Antenna Type USX - Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized

Polarization Dual

Antenna Input CPR137G

Antenna Color Gray

Reflector Construction Two-piece reflector

Radome Color Gray

Radome Material Fabric

Flash Included Yes

Side Struts, Included 2

Side Struts, Optional 3

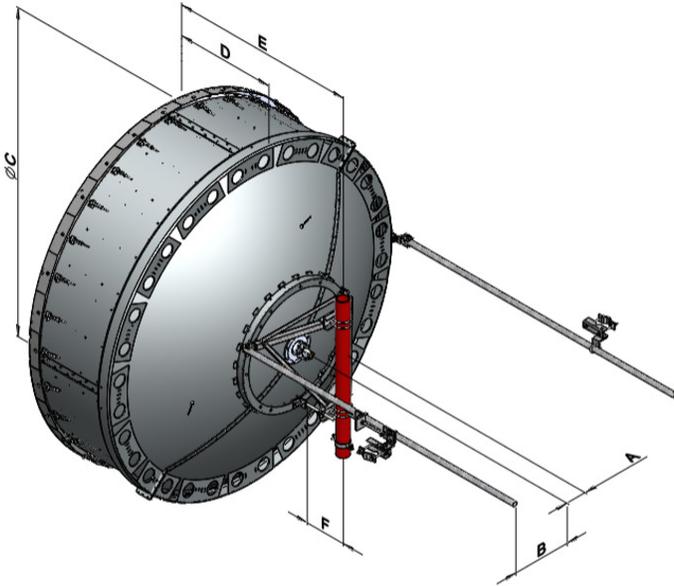
Dimensions

Diameter, nominal 3.0 m | 10 ft

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Antenna Dimensions and Mounting Information

USX10



Dimensions in inches (mm)						
Antenna Size, ft (m)	A	B	C	D	E	F
10 (3)	8.0 (203)	22.5 (572)	125.0 (3174)	38.6 (980)	71.1 (1807)	10.3 (262)

Electrical Specifications

Operating Frequency Band	5.925 – 7.125 GHz
Gain, Low Band	42.5 dBi
Gain, Mid Band	43.2 dBi
Gain, Top Band	43.9 dBi
Boresite Cross Polarization Discrimination (XPD)	40 dB
Front-to-Back Ratio	80 dB
Beamwidth, Horizontal	1.1 °
Beamwidth, Vertical	1.1 °
Return Loss	26 dB

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VSWR	1.1
Radiation Pattern Envelope Reference (RPE)	7424
Electrical Compliance	ACMA FX03_6a, 6p7a Brazil Anatel Class 2 ETSI 302 217 Class 4 IC 3059A IC 3064A US FCC Part 101A US FCC Part 74A
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 3

Electrical Specifications, Band 2

Beamwidth, Horizontal	1.3 °
Beamwidth, Vertical	1.3 °
Front-to-Back Ratio	70 dB
Gain, Mid Band	42.1 dBi
Operating Frequency Band	5.725 – 5.850 GHz

Mechanical Specifications

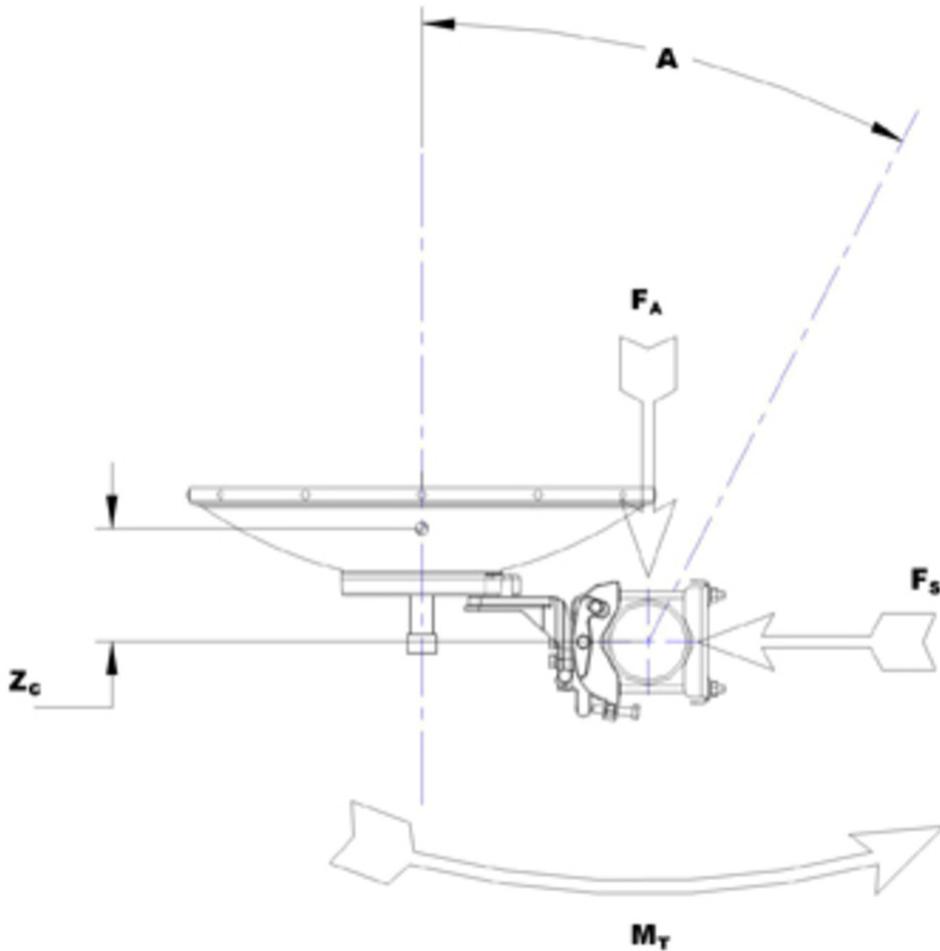
Compatible Mounting Pipe Diameter	115 mm 4.5 in
Fine Azimuth Adjustment Range	±5°
Fine Elevation Adjustment Range	±5°
Wind Speed, operational	180 km/h 111.847 mph
Wind Speed, survival	200 km/h 124.274 mph

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	18800 N 4,226.409 lbf
Angle a for MT Max	-130 °
Side Force (FS)	-6560 N -1,474.747 lbf
Twisting Moment (MT)	-10725 N-m -94,924.25 in lb
Force on Inboard Strut Side	9500 N 2,135.686 lbf
Force on Outboard Strut Side	3350 N 753.11 lbf
Zcg without Ice	618 mm 24.331 in
Zcg with 1/2 in (12 mm) Radial Ice	744 mm 29.291 in
Weight with 1/2 in (12 mm) Radial Ice	466 kg 1,027.353 lb

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Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Height, packed	1170 mm 46.063 in
Width, packed	1930 mm 75.984 in
Length, packed	3410 mm 134.252 in
Packaging Type	Standard pack
Volume	7.7 m ³ 271.923 ft ³
Weight, gross	513 kg 1,130.97 lb
Weight, net	263 kg 579.815 lb

Regulatory Compliance/Certifications

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Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted



* Footnotes

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.

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 $180^\circ \pm 40^\circ$, 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

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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.
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.