

1.8m | 6ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, 3.600 – 4.200 GHz, white, CPR229G 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 CPR229G
Antenna Color White

Reflector Construction One-piece reflector

Radome ColorGrayRadome MaterialFabric

Side Struts, Included 1
Side Struts, Optional 1

Dimensions

Diameter, nominal 1.8 m | 6 ft

Electrical Specifications

Operating Frequency Band 3.600 – 4.200 GHz

Gain, Low Band33.8 dBiGain, Mid Band34.8 dBiGain, Top Band35.3 dBiBoresite Cross Polarization Discrimination (XPD)40 dBFront-to-Back Ratio61 dB

Beamwidth, Horizontal 3.1 °
Beamwidth, Vertical 3.1 °

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Return Loss 23 dB

VSWR 1.15

Radiation Pattern Envelope Reference (RPE) 7383

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 3.600 - 4.200 GHz

Mechanical Specifications

Compatible Mounting Pipe Diameter 115 mm – 120 mm | 4.5 in – 4.7 in

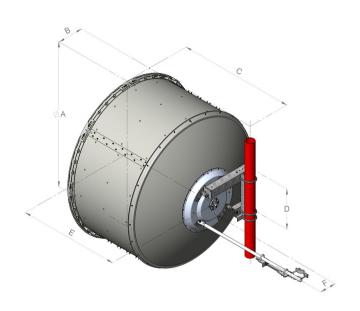
Fine Azimuth Adjustment Range $\pm 15^{\circ}$ Fine Elevation Adjustment Range $\pm 5^{\circ}$

 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	E	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

Zcg without Ice

Axial Force (FA) 6960 N | 1,564.671 lbf

Angle α for MT Max -130 $^{\circ}$

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 with 1/2 in (12 mm) Radial Ice 689 mm | 27.126 in

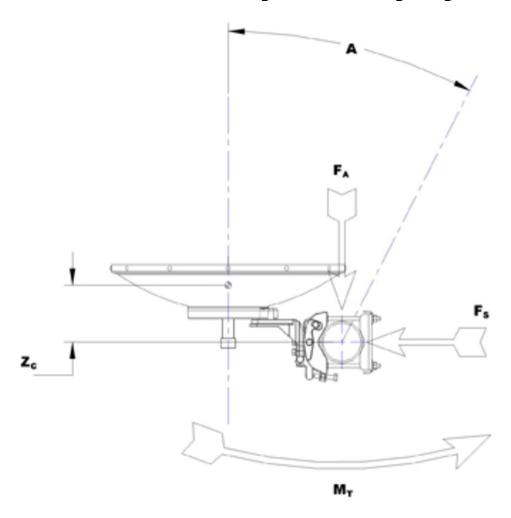
Weight with 1/2 in (12 mm) Radial Ice 291 kg | 641.544 lb

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498 mm | 19.606 in



Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Volume

Height, packed 2128 mm | 83.78 in Width, packed 544 mm | 21.417 in 1895 mm | 74.606 in Length, packed

Packaging Type Standard pack

Weight, gross 150 kg | 330.693 lb

Weight, net 90 kg | 198.416 lb

Regulatory Compliance/Certifications



2.2 m³ | 77.692 ft³

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 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 LossThe 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 $0.3\,\mathrm{x}$ 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.

ANDDEW

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

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.

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 wirebound crates (dependent on product). For your convenience,

Andrew offers heavy duty export packing options.

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