

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

OBSOLETE

This product was discontinued on: May 1, 2022

Replaced By:

USX6-3-6WH 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 Gray

Reflector Construction One-piece reflector

Radome Color Gray

Radome Material Fabric

Side Struts, Included 1

Side Struts, Optional

Dimensions

Diameter, nominal 1.8 m | 6 ft

Electrical Specifications

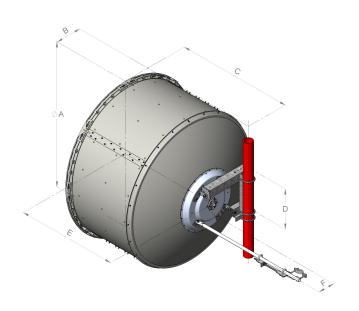
Operating Frequency Band 3.600 - 4.200 GHz

Gain, Low Band 33.8 dBi

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34.8 dBi Gain, Mid Band 35.3 dBi Gain, Top Band **Boresite Cross Polarization Discrimination (XPD)** 40 dB Front-to-Back Ratio 61 dB Beamwidth, Horizontal 3.1° 3.1° Beamwidth, Vertical **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 ±15° Fine Azimuth Adjustment Range ±5° **Fine Elevation Adjustment Range** Wind Speed, operational 180 km/h | 111.847 mph 200 km/h | 124.274 mph Wind Speed, survival

Antenna Dimensions and Mounting Information



Dimensions in inches (mm)						
Antenna size, ft (m)	Α	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

Axial Force (FA)

Angle α for MT Max

Side Force (FS)

Twisting Moment (MT)

Force on Inboard Strut Side

Zcg without Ice

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

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

6960 N | 1,564.671 lbf

-130°

1566 N | 352.051 lbf

4948 N-m | 43,793.488 in lb

6187 N | 1,390.893 lbf

498 mm | 19.606 in

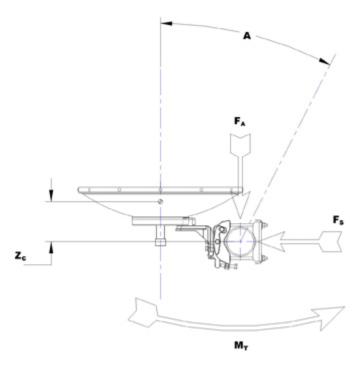
689 mm | 27.126 in

291 kg | 641.544 lb

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Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Height, packed	2110 mm 83.071 in
Width, packed	600 mm 23.622 in
Length, packed	2000 mm 78.74 in
Packaging Type	Standard pack
Volume	2.5 m³ 88.287 ft³
Weight, gross	150 kg 330.693 lb
Weight net	90 kg 198 416 lh

Regulatory Compliance/Certifications

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
UK-ROHS	Compliant/Exempted

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JSX6-3-6GR





Footnotes

Wind Speed, survival

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.

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

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.

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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.

Packaging Type

Twisting Moment (MT)

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