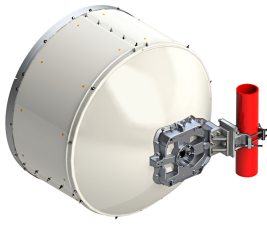


SHPX3-6W-6WH/A



0.9m | 3ft Sentinel® High Performance Antenna, dual-polarized, 5.925 - 7.125 GHz, CPR-G Flange, White Antenna, Grey Radome

OBSOLETE

This product was discontinued on: May 1, 2022

Replaced By:

SHPX3-6W-6WH/B 0.9m | 3ft Sentinel® High Performance Antenna, dual-polarized, 5.925 - 7.125 GHz, CPR-G Flange, White Antenna, Grey Radome

Product Classification

Product Type	Microwave antenna
Product Brand	Sentinel®

General Specifications

Antenna Type	SHP - Sentinel® High Performance Antenna, single-polarized
Polarization	Dual
Antenna Input	CPR137G
Antenna Color	White
Reflector Construction	One-piece reflector
Radome Color	Gray
Radome Material	Composite Broadband
Flash Included	No
Side Struts, Included	0
Side Struts, Optional	1

Dimensions

Diameter, nominal	0.9 m 3 ft
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Electrical Specifications

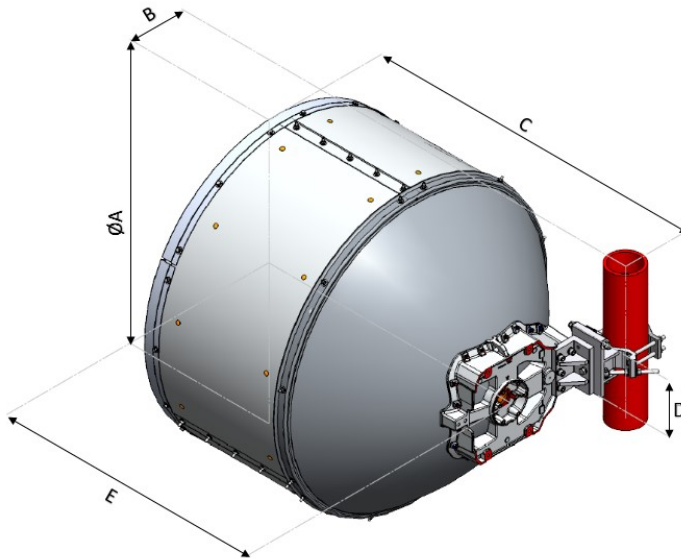
Operating Frequency Band	5.925 – 7.125 GHz
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SHPX3-6W-6WH/A

Gain, Low Band	32.3 dBi
Gain, Mid Band	33.6 dBi
Gain, Top Band	34.5 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	65 dB
Beamwidth, Horizontal	3.3 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7290A
Electrical Compliance	Brazil Anatel Class 2 ETSI 302 217 Class 3 US FCC Part 101B2
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 2
Mechanical Specifications	
Compatible Mounting Pipe Diameter	90 mm–120 mm 3.5 in–4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±15°
Wind Speed, operational	200 km/h 124.274 mph
Wind Speed, survival	250 km/h 155.343 mph

SHPX3-6W-6WH/A

Antenna Dimensions and Mounting Information



Dimensions in inches (mm)					
Antenna Size, ft (m)	A	B	C	D	E
3 (0.9)	38.9 (987)	16 (407)	36.3 (923)	7.2 (183)	34.7 (882.2)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)

2956 N | 664.535 lbf

Angle α for MT Max

40 °

Side Force (FS)

1464 N | 329.12 lbf

Twisting Moment (MT)

1203 N-m | 10,647.447 in lb

Zcg without Ice

325 mm | 12.795 in

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

481 mm | 18.937 in

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

89 kg | 196.211 lb

SHPX3-6W-6WH/A

Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Height, packed	1220 mm 48.032 in
Width, packed	490 mm 19.291 in
Length, packed	1120 mm 44.095 in
Packaging Type	Standard pack
Volume	0.7 m ³ 24.72 ft ³
Weight, gross	44.6 kg 98.326 lb
Weight, net	27 kg 59.525 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below 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
UK-ROHS	Compliant

SHPX3-6W-6WH/A



* 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 $180^\circ \pm 40^\circ$, 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 current RPE by more than 3dB, maintaining an angular accuracy of $\pm 1^\circ$ 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.

SHPX3-6W-6WH/A

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.