

1.2 m | 4 ft Sentinel® High Performance Antenna, dual-polarized, 5.925–7.125 GHz, CPR137G, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

Product Classification

Product Type Microwave antenna

Product Brand Sentinel®

General Specifications

Antenna Type SHPX - Sentinel® High Performance Antenna, dual-

polarized

62 dB

Polarization Dual

Antenna Input CPR137G
Antenna Color White

Reflector Construction One-piece reflector

Radome Color Gray

Radome Material Polymer

Flash Included No

Side Struts, Included1 inboardSide Struts, Optional1 inboard

Dimensions

Front-to-Back Ratio

Diameter, nominal 1.2 m | 4 ft

Electrical Specifications

Operating Frequency Band 5.925 - 7.125 GHz

Gain, Low Band34.8 dBiGain, Mid Band35.5 dBiGain, Top Band36.2 dBiBoresite Cross Polarization Discrimination (XPD)40 dB

Beamwidth, Horizontal 2.6 °

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Beamwidth, Vertical $2.6\,^{\circ}$

Return Loss 23.1 dB

VSWR 1.15

Radiation Pattern Envelope Reference (RPE) 7414

Electrical Compliance ACMA FX03_6b | Brazil Anatel Class 2 | ETSI

302 217 Class 3 | IC 3059A | IC 3064A | US

FCC Part 101B2

Cross Polarization Discrimination (XPD) Electrical Compliance ETSI EN 302217 XPD Category 3

Mechanical Specifications

Compatible Mounting Pipe Diameter 115 mm | 4.5 in

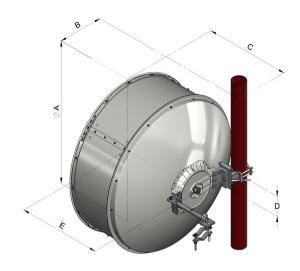
Fine Azimuth Adjustment Range ±15°

Fine Elevation Adjustment Range ±15°

 Wind Speed, operational
 200 km/h | 124.274 mph

 Wind Speed, survival
 250 km/h | 155.343 mph

Antenna Dimensions and Mounting Information



Dimensions in inches (mm)					
Antenna size, ft (m)	Α	В	С	D	E
4 (1.2)	50.8 (1291)	16 (407)	30.2 (767)	7.2 (183)	29.5 (748)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)

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

5326 N | 1,197.333 lbf

2638 N | 593.046 lbf

2162 N-m | 19,135.312 in lb

2862 N | 643.403 lbf

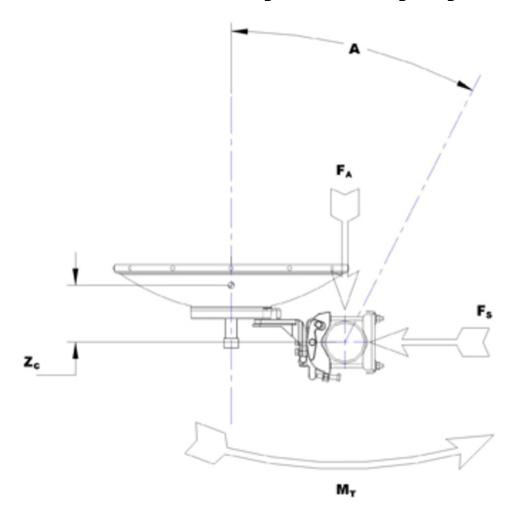
43 mm | 1.693 in

284 mm | 11.181 in

74 kg | 163.142 lb



Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

 Height, packed
 1520 mm | 59.843 in

 Width, packed
 380 mm | 14.961 in

 Length, packed
 1360 mm | 53.543 in

Packaging Type Standard pack

 Volume
 0.8 m³ | 28.252 ft³

 Weight, gross
 59 kg | 130.073 lb

Weight, net 32 kg | 70.548 lb



^{*} 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 BandFor 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 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.

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.

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Side Force (FS)

Twisting Moment (MT)

Packaging Type

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.

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.

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.