

1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 10.125–11.700 GHz, PBR100, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

Product Classification

Product Type Microwave antenna

Product Brand ValuLine®

General Specifications

Antenna Type VHLPX - ValuLine® High Performance Low Profile Antenna, dual-

polarized

PolarizationDualAntenna InputPBR100

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

Diameter, nominal 1.2 m | 4 ft

Electrical Specifications

Operating Frequency Band 10.125 – 11.700 GHz

Gain, Low Band40.2 dBiGain, Mid Band40.7 dBiGain, Top Band41 dBiBoresite Cross Polarization Discrimination (XPD)30 dB

Front-to-Back Ratio 66 dB

Beamwidth, Horizontal 1.6 °

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Beamwidth, Vertical 1.6 °

Return Loss 17.7 dB

VSWR 1.3

Radiation Pattern Envelope Reference (RPE) 7185A

Electrical Compliance Brazil Anatel Class 2 | Canada SRSP 310.5 | Canada SRSP 310.7

Part A | Canada SRSP 310.7 Part B | ETSI 302 217 Class

3 | US FCC Part 101A @ 10.55-10.7 GHz | US FCC Part 101A @ 10.7-11.7 GHz | US FCC Part 101B @ 10.125-11.7 GHz

Mechanical Specifications

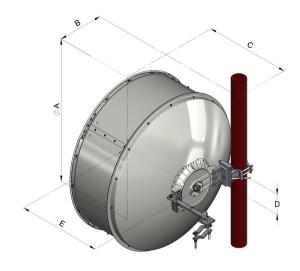
Compatible Mounting Pipe Diameter 115 mm | 4.5 in

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

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) 5326 N | 1,197.333 lbf

Side Force (FS) 2638 N | 593.046 lbf

Twisting Moment (MT) 2162 N-m | 19,135.312 in lb

Force on Inboard Strut Side 2862 N | 643.403 lbf

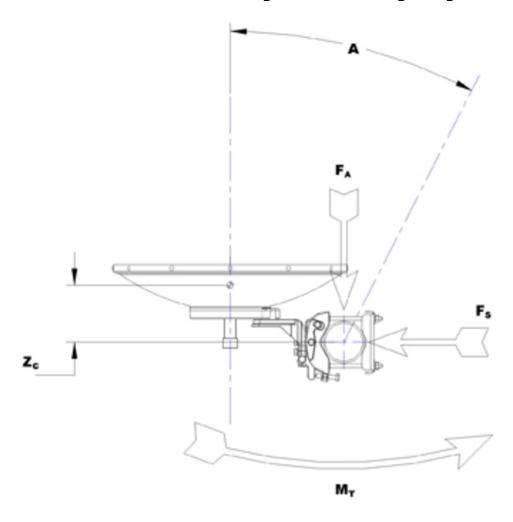
Zcg without Ice 43 mm | 1.693 in

Zcg with 1/2 in (12 mm) Radial Ice 284 mm | 11.181 in

Weight with 1/2 in (12 mm) Radial Ice 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 | 59.540 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

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.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.

VSWRMaximum; 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

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.

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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 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.

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