

1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, dualpolarized, 10.125–11.700 GHz, UBR100, 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
Polarization	Dual
Antenna Input	UBR100
Antenna Color	White
Reflector Construction	One-piece reflector
Radome Color	Gray
Radome Material	Flexible woven polymer
Flash Included	No
Side Struts, Included	1 inboard
Side Struts, Optional	1 inboard
Dimensions	
Diameter, nominal	1.2 m 4 ft
Electrical Specifications	
Operating Frequency Band	10.125 – 11.700 GHz
Gain, Low Band	40.2 dBi
Gain, Mid Band	40.7 dBi
Gain, Top Band	41 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	66 dB
Beamwidth, Horizontal	1.6 °

Page 1 of 6



Wind Speed, operational

Wind Speed, survival

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	±15°
Fine Elevation Adjustment Range	±15°

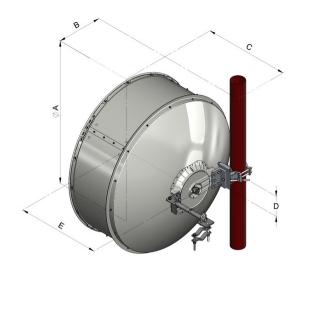
200 km/h | 124.274 mph

250 km/h | 155.343 mph

Page 2 of 6



Antenna Dimensions and Mounting Information



	Dim	ensions in in	ches (mm)		
Antenna size, ft (m)	A	В	С	D	E
4 (1.2)	50.8 (1291)	16 (407)	30.2 (767)	7.2 (183)	29.5 (748)

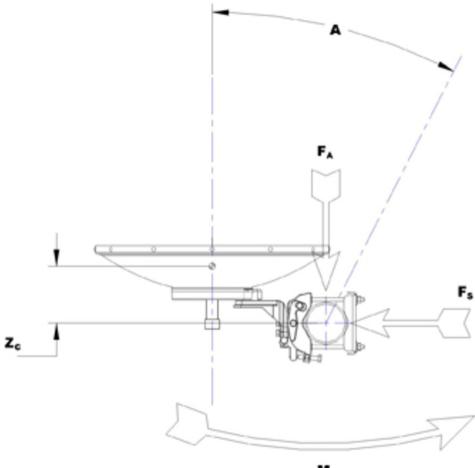
Wind Forces at Wind Velocity Survival Rating

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

Page 3 of 6



Wind Forces at Wind Velocity Survival Rating Image



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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 m ³ 28.252 ft ³
Weight, gross	59 kg 130.073 lb
Weight, net	32 kg 70.548 lb

Regulatory Compliance/Certifications

Page 4 of 6

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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 rev	ision on www.commscope.com/ProductCompliance
ROHS	Compliant	
UK-ROHS	Compliant	
* Footnotes		
Operating Frequency Ba	and	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 Polariza	tion 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 Envel	ope 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, operationa	l	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.

Page 5 of 6

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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.

