

1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, dualpolarized, 5.925–7.125 GHz, PDR70, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

#### Product Classification

Product BrandValuIn®General SpecificationsAntenna TypeVhLPS-ValuLine® High Performance Low Profile Antenna, dual polarizedPolarizationValuAntenna InputDualAntenna ColorViniteReflector ConstructionOne-jocce reflectorRadome ColorGrayRadome MaterialPolymerFlash IncludedNoSide Struts, Included1Side Struts, Included1DimensionsJiniboardDimensionsSale Struts, OptionalDirectificationsSuper ScienceOperating Frequency BandSuper ScienceOperating Frequency BandSuper ScienceGin, Low BandSuper ScienceGin, Top BandSuper ScienceBrestiet Cross Polarization Discrimination (XPP)Super ScienceStrutes Cores Polarization Discrimination (XPP)Super Science	Product Type	Microwave antenna
Antena TypeHLPX - ValuLine® High Performance Low Profile Antenna, dual- polarizedPolarizationDualAntenna InputPDR70Antenna ColorWhiteReflector ConstructionOne-piece reflectorRadome ColorGrayRadome AnterialPolymerFash IncludedNoSide Struts, Included1DimensionsIniboardDimensionsSame fectorPerformance StrutsSp25 - 7.125 GHzOperating Frequency BandSp25 - 7.125 GHzGain, Low BandSp.3 dBiGin, Low BandSp.3 dBiGin, Top BandSp.3 dBiHome StrutsSp.3 dBiGin, Top BandSp.3 dBiHome StrutsSp.3 dBiHome StrutsSp.3 dBiGin, Top BandSp.3 dBiHome StrutsSp.3 dBiHome Struts <th>Product Brand</th> <th>ValuLine®</th>	Product Brand	ValuLine®
polarizedPolarizedDualAntenna InputPDR70Antenna ColorWhiteReflector ConstructionOne-pice reflectorRadome ColorGrayRadome MaterialPolymerFlash IncludedNoSide Struts, Included1DimensionsJinboardDimensionsSame StrutsPolerting Frequency BandSp5 - 7.125 GHzGain, Mid BandSide Struts, IncludedGin, Mid BandSide StrutsGin, Top BandJinboardJong FrequencySide StrutsJong FrequencySide StrutsGin, Mid BandSide StrutsJong FrequencySide StrutsJong FrequencySide StrutsJong StrutsSide StrutsJong Struts <th>General Specifications</th> <th></th>	General Specifications	
Antenna InputPDR70Antenna ColorWhiteAntenna ColorOne-pice reflectorRadome ColorGrayRadome MaterialPolymerFlash IncludedNoSide Struts, Optional1DimensionsJiboardPlameter, nominalNoPlanter, programS25 - 7.125 GHzGrant, Joer BandS25 - 7.125 GHzGin, Low BandS3.26 BillGin, Mid BandS3.26 BillGin, Top BandS3.26 BillGin, Mid BandS3.26 BillGin, Top BandS3.26 BillGin, Mid BandS4.26 Bill	Antenna Type	
Antenna ColorWhiteReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialPolymerFlash IncludedNoSide Struts, Included1Side Struts, Optional1 inboardDimensions.Piameter, nominal.8 m l 6 ftOperating Frequency Band.925 - 7.125 GHzGain, Low Band.93.3 dBiGain, Mid Band.93.3 dBiAnten Marcel Struts.93.3 dBiGain, Top Band.93.3 dBiAnten Marcel Struts.93.3 dBi	Polarization	Dual
Reflector ConstructionOne-pice reflectorRadome ColorGrayRadome MaterialPolymerFlash IncludedNoSide Struts, Included1Side Struts, Optional1DimensionsFlameter, nominalOperating Frequency BandSous Sci	Antenna Input	PDR70
Radome ColorGrayRadome MaterialPolymerFash IncludedNoSide Struts, Included1Side Struts, Optional1Dimensions1Pameter, nominal1.8m (6 fttClectrical Specifications5925 - 7.125 GHzGain, Low Band8.5 dBiGain, Mid Band9.3 dBiGain, Top Band4.1 dBi	Antenna Color	White
Radome MaterialPolymerFlash IncludedNoSide Struts, Included1Side Struts, Optional1Dimensions1Dimeter, nominal1.8 m   6 ftClectrical Specifications5.925 – 7.125 GHzOperating Frequency Band5.925 – 7.125 GHzGain, Low Band3.9.3 dBiGain, Mid Band3.9.3 dBiComposition Specifications4.0.1 dBi	Reflector Construction	One-piece reflector
Flash IncludedNoSide Struts, Included1Side Struts, Optional1Dimensions1Dimeter, nominal1.8 m   6 ftElectrical Specifications5.925 – 7.125 GHzOperating Frequency Band5.925 – 7.125 GHzGain, Mid Band9.3 dBiGain, Top Band40.1 dBi	Radome Color	Gray
Side Struts, Included1Side Struts, Optional1 inboardDimensions	Radome Material	Polymer
Side Struts, Optional1 inboardDimensions	Flash Included	No
DimensionsDiameter, nominal1.8 m   6 ftElectrical Specifications5.925 - 7.125 GHzOperating Frequency Band38.5 dBiGain, Low Band39.3 dBiGain, Mid Band40.1 dBi	Side Struts, Included	1
Diameter, nominal1.8 m   6 ftElectrical Specifications5.925 - 7.125 GHzOperating Frequency Band5.925 - 7.125 GHzGain, Low Band38.5 dBiGain, Mid Band9.3 dBiGain, Top Band4.1 dBi	Side Struts, Optional	1 inboard
Electrical SpecificationsOperating Frequency Band5.925 - 7.125 GHzGain, Low Band38.5 dBiGain, Mid Band39.3 dBiGain, Top Band40.1 dBi	Dimensions	
Operating Frequency Band5.925 – 7.125 GHzGain, Low Band38.5 dBiGain, Mid Band39.3 dBiGain, Top Band40.1 dBi	Diameter, nominal	1.8 m   6 ft
Gain, Low Band 38.5 dBi   Gain, Mid Band 39.3 dBi   Gain, Top Band 40.1 dBi	Electrical Specifications	
Gain, Mid Band39.3 dBiGain, Top Band40.1 dBi	Operating Frequency Band	5.925 – 7.125 GHz
Gain, Top Band 40.1 dBi	Gain, Low Band	38.5 dBi
	Gain, Mid Band	39.3 dBi
Boresite Cross Polarization Discrimination (XPD) 30 dB	Gain, Top Band	40.1 dBi
	Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio66 dB	Front-to-Back Ratio	66 dB
Beamwidth, Horizontal 1.8 °	Beamwidth, Horizontal	1.8 °

Page 1 of 6



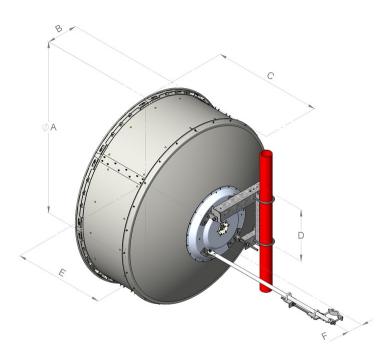
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Beamwidth, Vertical	1.8 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7139B
Electrical Compliance	Brazil Anatel Class 3   Canada SRSP 305.9 Part A   Canada SRSP 306.4 Part A   ETSI 302 217 Class 3   US FCC Part 101A
Electrical Specifications, Band 2	
Operating Frequency Band	5.700 – 5.875 GHz
Gain, Mid Band	38.3 dBi
Beamwidth, Horizontal	2.2 °
Beamwidth, Vertical	2.2 °
Mechanical Specifications	
Compatible Mounting Pipe Diameter	115 mm-120 mm   4.5 in-4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±5°
Wind Speed, operational	180 km/h   111.847 mph
Wind Speed, survival	250 km/h   155.343 mph



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Antenna Dimensions and Mounting Information



	Dimensio	ons in inch	nes (mm)			
Antenna size, ft (m)	A	В	с	D	Е	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	22.4 (570)	39.4 (1001)	6.9 (174)

#### Wind Forces at Wind Velocity Survival Rating

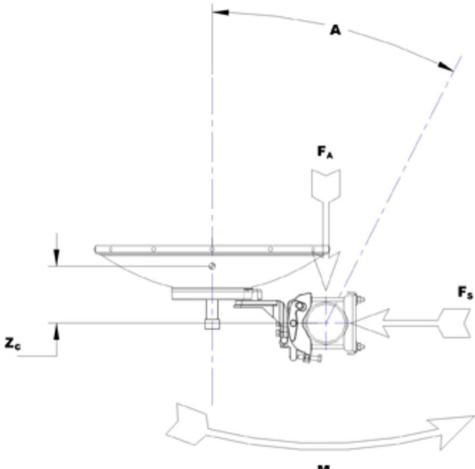
Axial Force (FA)	10670 N   2,398.712 lbf
Angle α for MT Max	-120 °
Side Force (FS)	5286 N   1,188.34 lbf
Twisting Moment (MT)	4752 N-m   42,058.742 in lb
Zcg without Ice	363 mm   14.291 in
Zcg with 1/2 in (12 mm) Radial Ice	543 mm   21.378 in
Weight with 1/2 in (12 mm) Radial Ice	234 kg   515.881 lb

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Page 3 of 6

Wind Forces at Wind Velocity Survival Rating Image



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#### Packaging and Weights

Height, packed	2110 mm   83.071 in
Width, packed	450 mm   17.717 in
Length, packed	1900 mm   74.803 in
Packaging Type	Standard pack
Volume	1.8 m³   63.566 ft³
Weight, gross	127 kg   279.987 lb
Weight, net	86 kg   189.597 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	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 Polariz	zation 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 Env	elope 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, operation	nal	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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Page 5 of 6



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.

Page 6 of 6

