

0.9m | 3 ft ValuLine® High Performance Low Profile Antenna, dualpolarized, 7.100–8.500 GHz, CPR112G flange, white antenna, composite broadband grey radome without flash, standard pack—one-piece reflector

#### Product Classification

Product BrandValuationGeneral SpecificationsAntenna TypeVHLPX - Valuation® High Performance Low Profile Antenna, dual- polarizedPolarizationDualAntenna InputCPR112GAntenna ColorWhiteReflector ConstructionOne-piece reflectorRadome MaterialComposite BroadbandFlash IncludedNoSide Struts, Included0DimensionsJinboardDimensions0.9 m   3 ftElectrical Specifications0.9 m   3 ftOperating Frequency Band0.100 = 8.500 GHzOperating Frequency Band0.100 = 8.500 GHz
Antenna TypeVHLPX-ValuLine® High Performance Low Profile Antenna, dual- polarizedPolarizationDualAntenna InputCPR112GAntenna ColorWhiteReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialComposite BroadbandFlash IncludedNoSide Struts, IncludedODimensionsJinboardDimensionsJinboardElectrical SpecificationsJino 2000 (Jino 2000) (Jino
polarizedPolar
Antenna InputCPR112GAntenna ColorWhiteAntenna ColorOne-pice reflectorRadome ColorGrayRadome MaterialComposite BroadbandFlash IncludedNoSide Struts, Optional0Dimensions1 inboardDimensions0.9 m l 3 ftElectrical Specifications0.9 m l 3 ftOperating Frequency Band2,100 – 8,200 GHz
Antenna ColorWhiteReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialComposite BroadbandFlash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions
Reflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialComposite BroadbandFlash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions
Radome ColorGrayRadome MaterialComposite BroadbandFlash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions
Radome MaterialComposite BroadbandFlash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions0.9 m   3 ftPlaneter, nominal0.9 m   3 ftElectrical Specifications7.00 – 8.500 GHz
Flash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions0.9 m   3 ftPlaneter, nominal0.9 m   3 ftElectrical Specifications7.100 – 8.500 GHz
Side Struts, Included0Side Struts, Optional1 inboardDimensions9Dimeter, nominal0.9 m   3 ftElectrical Specifications7.100 – 8.500 GHz
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DimensionsDiameter, nominal0.9 m   3 ftElectrical Specifications7.100 - 8.500 GHz
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Electrical SpecificationsOperating Frequency Band7.100 - 8.500 GHz
<b>Operating Frequency Band</b> 7.100 – 8.500 GHz
Gain, Low Band34.8 dBi
Gain, Mid Band35.3 dBi
Gain, Top Band35.8 dBi
Boresite Cross Polarization Discrimination (XPD) 30 dB
Front-to-Back Ratio61 dB
Beamwidth, Horizontal 3 °

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Page 1 of 6



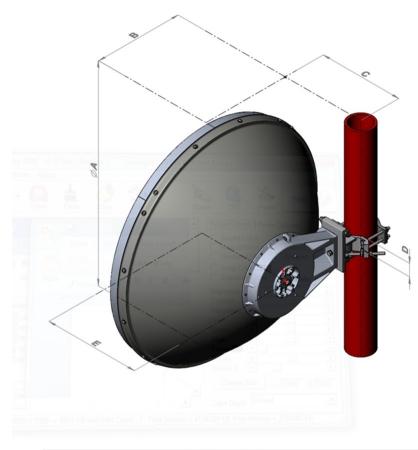
Beamwidth, Vertical	3°
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7168A
Electrical Compliance	Brazil Anatel Class 2   ETSI 302 217 Class 3
Mechanical Specifications	
Compatible Mounting Pipe Diameter	90 mm-120 mm   3.5 in-4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±15°
Wind Speed, operational	180 km/h   111.847 mph
Wind Speed, survival	250 km/h   155.343 mph

Page 2 of 6



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Antenna Dimensions and Mounting Information



Dimension in Inches (mm)					
Antenna size, ft (m)	A	В	С	D	E
3 (1.0)	39.3 (999)	16 (407)	15.2 (387)	2.4 (60)	17.2 (437)

#### Wind Forces at Wind Velocity Survival Rating

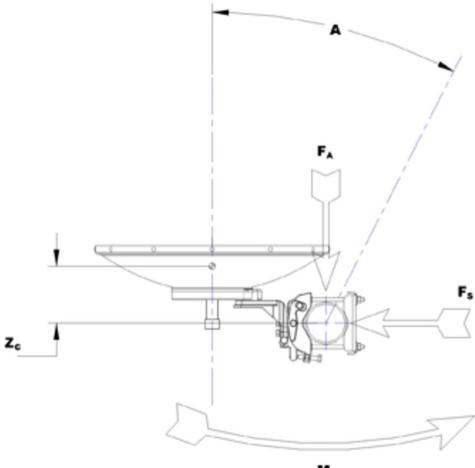
Axial Force (FA)	2903 N   652.621 lbf
Angle α for MT Max	0 °
Side Force (FS)	1439 N   323.5 lbf
Twisting Moment (MT)	1179 N-m   10,435.029 in lb
Zcg without Ice	135 mm   5.315 in
Zcg with 1/2 in (12 mm) Radial Ice	84 mm   3.307 in
Weight with 1/2 in (12 mm) Radial Ice	46 kg   101.413 lb

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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	1110 mm   43.701 in
Width, packed	400 mm   15.748 in
Length, packed	1200 mm   47.244 in
Packaging Type	Standard pack
Volume	0.5 m³   17.657 ft³
Weight, gross	29 kg   63.934 lb
Weight, net	17 kg   37.479 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.andrew.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 $0.3 \times 163$ 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

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