

1.8m | 6ft ValuLine® High Performance, High XPD Antenna, dualpolarized, white, 7.125 – 8.500 GHz, PDR84 flange

Product TypeMicrowave antennaProduct BrandValuLine®Product SpecificationsMicrowave antenna, dual-polarizedforenral SpecificationsMicrowave antenna, dual-polarizedPolarizationDualPolarizationDualAntenna, dual-polarizedPDR84Antenna fourPDR84Antenna ColorOne-piece reflectorRadome ColorGrayRadome MaterialFabricaSide Struts, Included1Side Struts, Optional1Dimensions	Product Classification	
Ceneral SpecificationsAntenna TypeNat Valuation SpecificationsPolarizationDualAntenna InputDualAntenna ColorWhiteAntenna ColorOne piece reflectorRadome ColorGrayRadome ColorGrayRadome MaterialFabricSide Struts, Included1Side Struts, Optional1DimensionsJacalentPotential SpecificationsJacalentOreging Frequency BandAlusticationGain, Mid BandAlusticationAntenda MaterialSide Struts, OptionalGain, Top BandAlusticationGrester Cross Polarization Discrimination (XPP)Side Struts, OptionalGrester Cross Polarization Discrimination (XPD)Side Struts, OptionalGrester Cross Polarization Discrimination (XPD)Side Struts, OptionalGrant-Back RatioJacalentFort-Back RatioJacal	Product Type	Microwave antenna
Antenna TypeHX - ValuLine® High Performance, High XPD Antenna, dual-polarizedPolarizationDualAntenna InputPDR84Antenna ColorWhiteReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialPabricSide Struts, Included1Side Struts, Optional1DimensionSJane 16Planeter, nominal1.8 m 16 ftGestrutg Frequency Band9.125 – 8.500 GHzGain, Low Band9.125 – 8.500 GHzGain, Top Band9.3 dBForeste Cross Polarization Discrimination (XPD)3.3 dBForent-Back Ratio9.2 dBBeanwidth, Horizontal1.5 *	Product Brand	ValuLine®
Antenna, dual-polarizedPolarizationDualAntenna InputPDR84Antenna ColorWhiteReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialFabricSide Struts, Included1Side Struts, Optional1Dimensions1Dimensions1.8 m 6 ftElectrical Specifications7.125 - 8.500 GHzGain, Low Band40.1 dBiGain, Top Band40.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio7.2 dBBeanwidth, Horizontal1.5 °	General Specifications	
Antenna InputPDR84Antenna ColorWhiteAntenna ColorOne piece reflectorRadome ColorGrayRadome MaterialFabricSide Struts, Included1Side Struts, Optional1DimensionsJPlaneter, nominal1.8 m l 6 ftOperating Frequency Band9.125 – 8.500 GHzGain, Low Band40.1 dBiGain, Top Band40.3 dBiGain, Top Band3.3 dBiForto-Back Ratio7.22 GBiFornt-o-Back Ratio1.2 dBiBanwidth, Horizontal1.5 °	Antenna Type	
Antenna ColorWhiteReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialFabricSide Struts, Included1Side Struts, Optional1Dimensions1Dimensions1.8 m16 ftFlectrical Specifications1.25 ~ 8.500 GHzGain, Low Band4.0.1 dBiGain, Top Band4.0.3 dBiGain, Top Band4.1.3 dBiFornt-to-Back Ratio2.2 dBiBeanwidth, Horizontal1.5 °	Polarization	Dual
Reflector ConstructionOne-pice reflectorRadome ColorGrayRadome MaterialFabricSide Struts, Included1Side Struts, Optional1Dimensions1Dimeter, nominal1.8 m 6 ftPorating Frequency Band9.125 = 8.500 GHzGain, Low Band9.125 = 8.500 GHzGain, Top Band4.0.4 dBiGain, Top Band9.3 dBiFornt-to-Back Ratio3.3 dBiBeamwidth, Horizontal15.°	Antenna Input	PDR84
Radome ColorGrayRadome MaterialFabricRadome MaterialFabricSide Struts, Included1Side Struts, Optional1Dimensions1Dimeter, nominal1.8 m l 6 ftDerating Frequency Band7.125 = 8.500 GHzGain, Low Band40.8 dBiGain, Top Band41.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio7.2 dBBeanwidth, Horizontal1.5 °	Antenna Color	White
Radome MaterialFabricRadome MaterialFabricSide Struts, Included1Side Struts, Optional1Dimensions1Dimeter, nominal1.8 m l 6 ftDetrical Specifications1.2 S - 8.500 GHzGoard, Low Band40.1 dBiGain, Mid Band40.8 dBiGoarste Cross Polarization Discrimination (XPD)31 dBiFront-to-Back Ratio7.2 GBiBeanwidth, Horizontal1.5 °	Reflector Construction	One-piece reflector
Side Struts, Included1Side Struts, Optional1Dimensions.Dimeter, nominal1.8 m 6 ftElectrical SpecificationsOperating Frequency Band9.125 - 8.500 GHzGain, Low Band40.1 dBiGain, Top Band41.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFont-to-Back Ratio1.2 dBBeanwidth, Horizontal1.5 °	Jome Color Gray	
Side Struts, Optional1Dimensions	Radome Material Fabric	
DimensionsDiameter, nominal1.8 m 6 ftElectrical Specifications7.125 - 8.500 GHzOperating Frequency Band7.125 - 8.500 GHzGain, Low Band40.1 dBiGain, Mid Band40.8 dBiGain, Top Band41.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio72 dBBeanwidth, Horizontal1.5 °	Side Struts, Included	1
Diameter, nominal1.8 m 6 ftElectrical Specifications	Side Struts, Optional	1
Electrical SpecificationsOperating Frequency Band7.125 - 8.500 GHzGain, Low Band40.1 dBiGain, Mid Band40.8 dBiGain, Top Band41.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio72 dBBeanwidth, Horizontal1.5 °	Dimensions	
Operating Frequency Band7.125 – 8.500 GHzGain, Low Band40.1 dBiGain, Mid Band40.8 dBiGain, Top Band41.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio72 dBBeanwidth, Horizontal1.5 °	Diameter, nominal	1.8 m 6 ft
Gain, Low Band40.1 dBiGain, Mid Band40.8 dBiGain, Top Band41.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio72 dBBeamwidth, Horizontal1.5 °	Electrical Specifications	
Gain, Mid Band40.8 dBiGain, Top Band41.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio72 dBBeanwidth, Horizontal1.5 °	Operating Frequency Band	7.125 – 8.500 GHz
Gain, Top Band41.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio72 dBBeamwidth, Horizontal1.5 °	Gain, Low Band	40.1 dBi
Boresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio72 dBBeamwidth, Horizontal1.5 °	Gain, Mid Band	40.8 dBi
Front-to-Back Ratio72 dBBeamwidth, Horizontal1.5 °	Gain, Top Band	41.3 dBi
Beamwidth, Horizontal 1.5 °	Boresite Cross Polarization Discrimination (XPD)	33 dB
	Front-to-Back Ratio	72 dB
Beamwidth, Vertical 1.5 °	Beamwidth, Horizontal	1.5 °
	Beamwidth, Vertical	1.5 °

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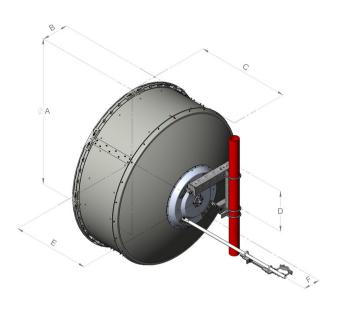
HX6-7W-4WH

Return Loss	26 dB
VSWR	1.1
Radiation Pattern Envelope Reference (RPE)	7377
Electrical Compliance	ACMA FX03_7p5a Brazil Anatel Class 2 Canada SRSP 307.1 ETSI 302 217 Class 3
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 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	200 km/h 124.274 mph
Wind Speed, survival	200 km/h 124.274 mph

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Antenna Dimensions and Mounting Information



	Dimensio	ons in inch	ies (mm)			
Antenna size, ft (m)	A	в	с	D	Е	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	20.9 (530)	39.4 (1001)	8.4 (214)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	6960 N 1,564.671 lbf
Angle α for MT Max	-130 °
Side Force (FS)	1566 N 352.051 lbf
Twisting Moment (MT)	3923 N-m 34,721.477 in lb
Force on Inboard Strut Side	4075 N 916.097 lbf
Zcg without Ice	363 mm 14.291 in
Zcg with 1/2 in (12 mm) Radial Ice	541 mm 21.299 in
Weight with 1/2 in (12 mm) Radial Ice	237 kg 522.495 lb

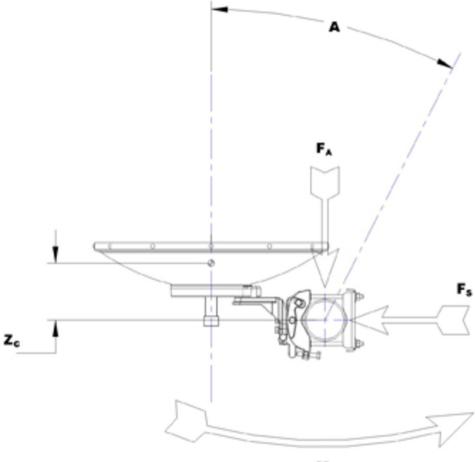
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Wind Forces at Wind Velocity Survival Rating Image



MT

Packaging and Weights Height, packed Width, packed Length, packed Packaging Type Volume Weight, gross Weight, net

Regulatory Compliance/Certifications

2128 mm 83./8 in
544 mm 21.417 in
1895 mm 74.606 in
Standard pack
2.2 m³ 77.692 ft³
145 kg 319.67 lb
85 kg 187.393 lb

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Agency	Classification		
CHINA-ROHS	Below maximum concentration value	Below maximum concentration value	
REACH-SVHC	Compliant as per SVHC revision on www.a	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 Polari	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	velope 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 Dis	scrimination (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, operatio	nal	For VHLP(X), SHP(X), HX and USX antennas, the wind speed where the maximum antenna deflection is 0.3×10^{-3} dB	

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beam width of the antenna. For other antennas, it is defined

as a deflection is equal to or less than 0.1 degrees.

HX6-7W-4WH

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.
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.

