

2.4m | 8ft ValuLine® High Performance, High XPD Antenna, dualpolarized, 5.925 – 7.125 GHz, grey, PDR70 flange

Product Classification **Product Type** Microwave antenna **Product Brand** ValuLine® General Specifications Antenna Type HX - ValuLine® High Performance, High XPD Antenna, dual-polarized Polarization Dual PDR70 Antenna Input Antenna Color Gray **Reflector Construction** One-piece reflector **Radome Color** Gray **Radome Material** Fabric Flash Included Yes Side Struts, Included 1 Side Struts, Optional 4 Dimensions **Diameter**, nominal 2.4 m | 8 ft **Electrical Specifications Operating Frequency Band** 5.925 - 7.125 GHz Gain, Low Band 40.8 dBi 41.6 dBi Gain, Mid Band Gain, Top Band 42.4 dBi **Boresite Cross Polarization Discrimination (XPD)** 33 dB 70 dB Front-to-Back Ratio Beamwidth, Horizontal 1.3°

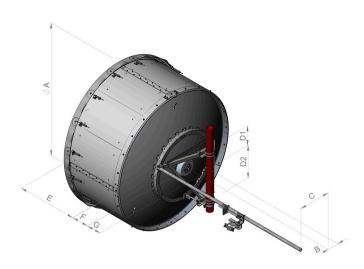
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Beamwidth, Vertical	1.3 °		
Return Loss	26 dB		
VSWR	1.1		
Radiation Pattern Envelope Reference (RPE)	7389		
Electrical Compliance	ACMA FX03_6b, 6p7b Brazil Anatel Class 2 ETSI 302 217 Class 3 IC 3059A IC 3064A US FCC Part 101A US FCC Part 74A		
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 2		
Electrical Specifications, Band 2			
Operating Frequency Band	5.725 – 5.850 GHz		
Gain, Mid Band	40.7 dBi		
Beamwidth, Horizontal	1.3 °		
Beamwidth, Vertical	1.3 °		
Mechanical Specifications			
Compatible Mounting Pipe Diameter	115 mm 4.5 in		
Fine Azimuth Adjustment Range	±5°		
Fine Elevation Adjustment Range	±5°		
Wind Speed, operational	180 km/h 111.847 mph		
Wind Speed, survival	200 km/h 124.274 mph		



Antenna Dimensions and Mounting Information

HX8



Dimensions in inches (mm)								
Antenna size, ft (m)	A	в	с	D1	D2	Е	F	G
8 (2.4)	95.1 (2416)	8.0 (203)	22.5 (572)	14.1 (357)	23.6 (600)	42.4 (1078)	12.1 (306)	10.3 (262)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	10599 N 2,382.751 lbf
Angle α for MT Max	-140 °
Side Force (FS)	4594 N 1,032.773 lbf
Twisting Moment (MT)	-6518 N-m -57,689.16 in lb
Force on Inboard Strut Side	11263 N 2,532.024 lbf
Zcg without Ice	532 mm 20.945 in
Zcg with 1/2 in (12 mm) Radial Ice	675 mm 26.575 in
Weight with 1/2 in (12 mm) Radial Ice	342 kg 753.98 lb

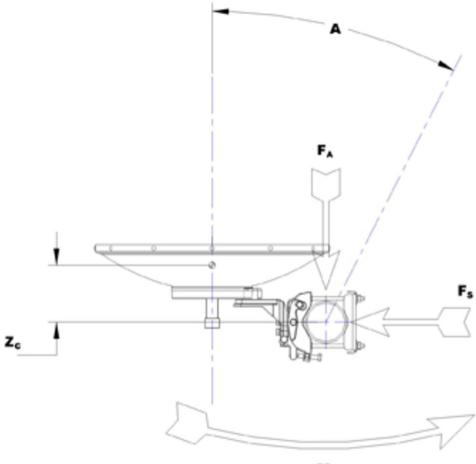
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Wind Forces at Wind Velocity Survival Rating Image



MT

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

Regulatory Compliance/Certifications

2250 mm 88.583 in		
1130 mm 44.488 in		
2380 mm 93.701 in		
Standard pack		
6.1 m ³ 215.42 ft ³		
318 kg 701.069 lb		
187 kg 412.264 lb		

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Agency

Classification

Agency	Classification		
CHINA-ROHS	Above maximum concentration value		
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system		
ROHS	Compliant/Exempted		
UK-ROHS	Compliant/Exempted		
50			
* Footnotes			
Operating Frequency Ba	nd	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 Polarizat	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 Envelo	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	
Cross Polarization Discr	imination (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, operational	I	For VHLP(X), SHP(X), HX and USX antennas, the wind speed where the maximum antenna deflection is 0.3×10^{-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.	

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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.

