## 苏州启道电子 - 康普安德鲁授权代理商



2.4m | 8ft ValuLine  $\ensuremath{\mathbb{R}}$  High Performance, High XPD Antenna, dual-polarized, 4.400 – 5.000 GHz

Product Classification	
Product Type	Microwave antenna
General Specifications	
Antenna Type	HX - ValuLine® High Performance, High XPD Antenna, dual-polarized
Polarization	Dual
Side Struts, Included	1
Side Struts, Optional	4
Dimensions	
Diameter, nominal	2.4 m   8 ft
Electrical Specifications	
Operating Frequency Band	4.400 - 5.000 GHz
Gain, Low Band	38 dBi
Gain, Mid Band	38.8 dBi
Gain, Top Band	39.3 dBi
Boresite Cross Polarization Discrimination (XPD)	33 dB
Front-to-Back Ratio	66 dB
Beamwidth, Horizontal	2°
Beamwidth, Vertical	2°
Return Loss	23 dB
VSWR	1.15
Radiation Pattern Envelope Reference (RPE)	7388
Electrical Compliance	ETSI 302 217 Class 3
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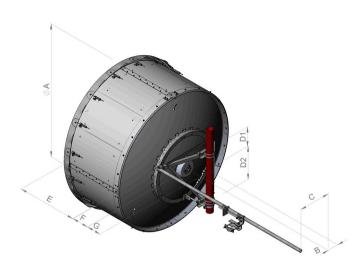
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 2
Mechanical Specifications	
Compatible Mounting Pipe Diameter	115 mm   4.5 in
Fine Azimuth Adjustment Range	±5°
Fine Elevation Adjustment Range	±5°
Wind Speed, operational	180 km/h   111.847 mph
Wind Speed, survival	200 km/h   124.274 mph

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## Antenna Dimensions and Mounting Information

HX8



		Dimer	sions 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 a 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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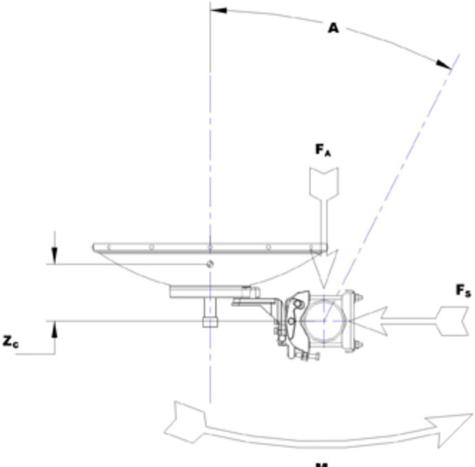
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Wind Forces at Wind Velocity Survival Rating Image



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## Packaging and Weights

#### Weight, net

187 kg | 412.264 lb

## Regulatory Compliance/Certifications

#### Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



Agency

## \* Footnotes

#### **Operating Frequency Band**

Bands correspond with CCIR recommendations or common

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	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 Polarization 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 Envelope 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 Discrimination (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	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.
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

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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.

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.

**Twisting Moment (MT)** 

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