

2.4m | 8ft ValuLine® High Performance, High XPD Antenna, dual-polarized, 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

PolarizationDualAntenna InputPDR70

Antenna Color Gray

Reflector ConstructionOne-piece reflector

Radome Color Gray
Radome Material Fabric
Flash Included No

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 Band40.8 dBiGain, Mid Band41.6 dBiGain, Top Band42.4 dBi

Boresite Cross Polarization Discrimination (XPD) 33 dB

COMMSCSPE®

Front-to-Back Ratio70 dBBeamwidth, Horizontal1.3°Beamwidth, Vertical1.3°Return Loss26 dBVSWR1.1Radiation Pattern Envelope Reference (RPE)7389

Electrical Compliance ACMA FX03_6b, 6p7b | 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 Band40.7 dBiBeamwidth, Horizontal1.3 °Beamwidth, Vertical1.3 °

Mechanical Specifications

Compatible Mounting Pipe Diameter 115 mm | 4.5 in

Fine Azimuth Adjustment Range $\pm 5^{\circ}$ Fine Elevation Adjustment Range $\pm 5^{\circ}$

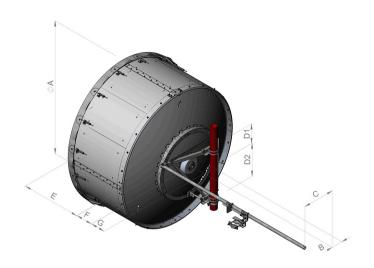
 Wind Speed, operational
 180 km/h
 1 111.847 mph

 Wind Speed, survival
 200 km/h
 1 124.274 mph



Antenna Dimensions and Mounting Information

HX8



Dimensions in inches (mm)								
Antenna size, ft (m)	А	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)

Angle α for MT Max

Side Force (FS)

Twisting Moment (MT)

Force on Inboard Strut Side

Zcg without Ice

Zcg with 1/2 in (12 mm) Radial Ice

Weight with 1/2 in (12 mm) Radial Ice

10599 N | 2,382.751 lbf

-140°

4594 N | 1,032.773 lbf

-6518 N-m | -57,689.16 in lb

11263 N | 2,532.024 lbf

532 mm | 20.945 in

675 mm | 26.575 in

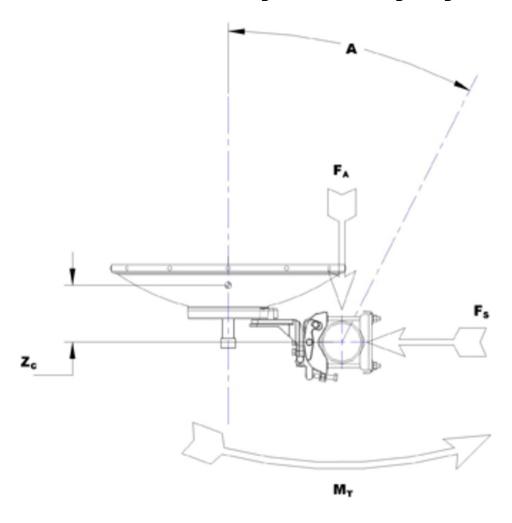
342 kg | 753.98 lb

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Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net

 Height, packed
 2250 mm
 | 88.583 in

 Width, packed
 1130 mm
 | 44.488 in

 Length, packed
 2380 mm
 | 93.701 in

ength, packed 2380 mm | 93.701 ir

 Packaging Type
 Standard pack

 Volume
 6.1 m³ | 215.42 ft³

 Weight, gross
 318 kg | 701.069 lb

Regulatory Compliance/Certifications



187 kg | 412.264 lb

Agency

Classification

ISO 9001:2015

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



* 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 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 LossThe figure that indicates the proportion of radio waves

incident upon the antenna that are rejected as a ratio of

those that are accepted.

VSWRMaximum; 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

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Axial Force (FA)
Side Force (FS)

Packaging Type

Twisting Moment (MT)

wind speed is applicable to antenna with the specified amount of radial ice.

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.

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.

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.

Andrew standard packing is suitable for export. Antennas are shipped as standard in totally recyclable cardboard or wirebound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options.