

3.0m | 10ft ValuLine® High Performance, High XPD Antenna, dualpolarized, 5.925 – 7.125 GHz, grey, CPR137G flange

Product Classification	
Product Type	Microwave antenna
General Specifications	
Antenna Type	HX - ValuLine® High Performance, High XPD Antenna, dual-polarized
Polarization	Dual
Antenna Input	CPR137G
Antenna Color	Gray
Reflector Construction	Two-piece reflector
Radome Color	Gray
Radome Material	Fabric
Flash Included	No
Side Struts, Included	2
Side Struts, Optional	3
Dimensions	
Diameter, nominal	3.0 m   10 ft
Electrical Specifications	
Operating Frequency Band	5.925 – 7.125 GHz
Gain, Low Band	42.5 dBi
Gain, Mid Band	43.2 dBi
Gain, Top Band	43.9 dBi
Boresite Cross Polarization Discrimination (XPD)	33 dB
Front-to-Back Ratio	75 dB
Beamwidth, Horizontal	1.1 °
Beamwidth, Vertical	1.1 °

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Return Loss	26 dB
VSWR	1.1
Radiation Pattern Envelope Reference (RPE)	7436
Electrical Compliance	ACMA FX03_6a, 6p7a   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	42.1 dBi
Beamwidth, Horizontal	1.3 °
Beamwidth, Vertical	1.3 °
Front-to-Back Ratio	70 dB
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

USX10

Dimensions in inches (mm) Antenna С D Ε F А В Size, ft (m) 10 8.0 22.5 125.0 38.6 71.1 10.3

#### Wind Forces at Wind Velocity Survival Rating

(3174)

(572)

(203)

(3)

Axial Force (FA)	18800 N   4,226.409 lbf
Angle α for MT Max	-130 °
Side Force (FS)	-6560 N   -1,474.747 lbf
Twisting Moment (MT)	-10725 N-m   -94,924.25 in lb
Force on Inboard Strut Side	9500 N   2,135.686 lbf
Force on Outboard Strut Side	3350 N   753.11 lbf
Zcg without Ice	618 mm   24.331 in
Zcg with 1/2 in (12 mm) Radial Ice	744 mm   29.291 in

(1807)

(262)

(980)

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HX10-6W-6GR

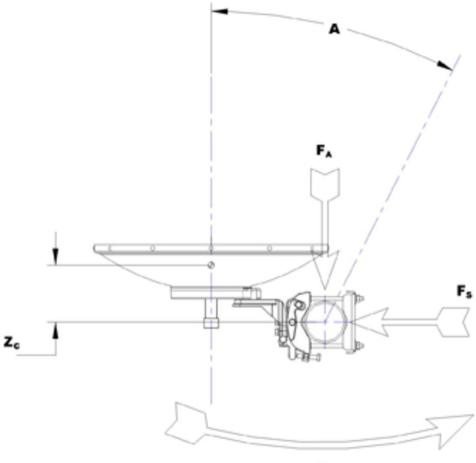
Weight with 1/2 in (12 mm) Radial Ice

466 kg | 1,027.353 lb

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Wind Forces at Wind Velocity Survival Rating Image



MT

Packaging and Weights 1170 mm | 46 063 in Height, packed Width, packed Length, packed Packaging Type Volume Weight, gross Weight, net

#### Regulatory Compliance/Certifications

117011111	1	+0.000 111	
1930 mm		75.984 in	
3410 mm		134.252 in	
Standard pack			
7.7 m³	27	1.923 ft <sup>3</sup>	
513 kg	1,1	30.97 lb	
263 kg	57	9.815 lb	

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Agency	Classification		
CHINA-ROHS	Above maximum concentration value	Above maximum concentration value	
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system		
REACH-SVHC	Compliant as per SVHC revision on www.c	Compliant as per SVHC revision on www.commscope.com/ProductCompliance	
ROHS	Compliant/Exempted		
UK-ROHS	Compliant/Exempted		
* Footnotes			
Operating Frequency B	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	ation 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 Enve	lope 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 Disc	rimination (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, operation	al	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	

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	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 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.

