



VHLP6-11W-GT1 & VHLP6-11W-GT2

1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 10.000-11.700 GHz, Aviat WTM4100/WTM4200 Interface, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

General Specifications

Antenna Type VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized

Diameter, nominal 1.8 m | 6 ft
Packing Standard pack

Radome Color Gray
Radome Material Polymer

Reflector Construction One-piece reflector
Antenna Input Customer specific

Antenna Color White

Antenna Type VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized

Diameter, nominal 1.8 m | 6 ft

Flash Included No Polarization Single

Electrical Specifications

Operating Frequency Band 10.000 – 11.700 GHz

Beamwidth, Horizontal 1.0 °
Beamwidth, Vertical 1.0 °
Cross Polarization Discrimination (XPD) 30 dB

Electrical Compliance Brazil Anatel Class 3 | Canada SRSP 310.5 | Canada SRSP 310.7 Part

B | ETSI 302 217 Class 3 | US FCC Part 101A

Front-to-Back Ratio 70 dB
Gain, Low Band 43.2 dBi
Gain, Mid Band 44.0 dBi
Gain, Top Band 44.8 dBi

Operating Frequency Band 10.000 – 11.700 GHz

Radiation Pattern Envelope Reference (RPE) 7089B
Return Loss 17.7 dB
VSWR 1.30

Mechanical Specifications

Fine Azimuth Adjustment ±15°
Fine Elevation Adjustment ±5°

Mounting Pipe Diameter 115 mm-120 mm | 4.5 in-4.7 in

Net Weight 86 kg | 190 lb

Side Struts, Included 1

Side Struts, Optional 1 inboard



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Wind Velocity Operational 180 km/h | 112 mph Wind Velocity Survival Rating 250 km/h | 155 mph

Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max -120

Axial Force (FA) 10670 N | 2399 lbf Side Force (FS) 5286 N | 1188 lbf

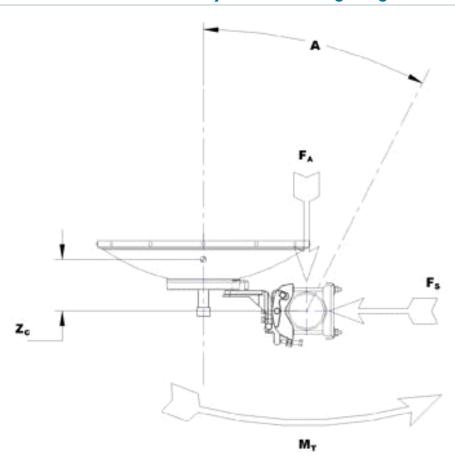
Twisting Moment (MT) 4752 N•m

Weight with 1/2 in (12 mm) Radial Ice 234 kg | 516 lb Zcg with 1/2 in (12 mm) Radial Ice 543 mm | 21 in Zcg without Ice 363 mm | 14 in



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Wind Forces At Wind Velocity Survival Rating Image



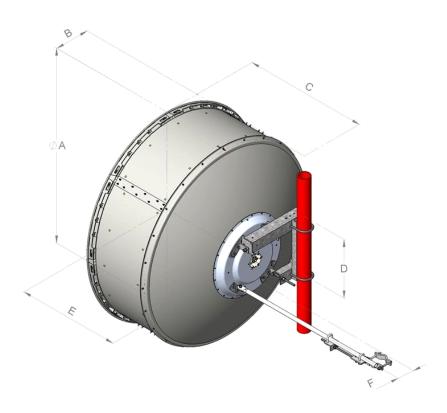
Packed Dimensions

Gross Weight, Packed Antenna	127.0 kg 280.0 lb
Height	211.0 cm 83.1 in
Length	190.0 cm 74.8 in
Volume	1.8 m³
Width	45.0 cm 17.7 in



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Antenna Dimensions And Mounting Information



	Dimensio	ons in inch	nes (mm)			
Antenna size, ft (m)	А	В	С	D	E	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	22.4 (570)	39.4 (1001)	6.9 (174)

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system

* Footnotes

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.

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



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the band. Production antennas do not exceed rated values by more than $\ensuremath{\mathsf{2}}$

dB unless stated otherwise.

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.

Operating Frequency Band Bands correspond with CCIR recommendations or common allocations used

throughout the world. Other ranges can be accommodated on special order.

Packing 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.

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

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.

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.

VSWR Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the

operating band.

Wind Velocity Operational The wind speed where the antenna deflection is equal to or less than 0.1

degrees. In the case of ValuLine antennas, it is defined as a maximum

deflection of 0.3 x the 3 dB beam width of the antenna.

Wind Velocity Survival Rating 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.