



VHLP1-15-GT1 & VHLP1-15-GT2

0.3 m | 1 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 14.250 – 15.350 GHz, Aviat WTM4100/WTM4200 Interface, white antenna, gray radome without flash, standard pack—one-piece reflector

General Specifications

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

Diameter, nominal 0.3 m | 1 ft
Packing Standard pack

Radome Color Gray

Radome Material Composite Broadband
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 0.3 m | 1 ft

Flash Included No Polarization Single

Electrical Specifications

Operating Frequency Band 14.250 – 15.350 GHz

Beamwidth, Horizontal 4.1 °
Beamwidth, Vertical 4.1 °
Cross Polarization Discrimination (XPD) 30 dB

Electrical Compliance Brazil Anatel Class 2 | ETSI 302 217 Class 3

Front-to-Back Ratio 60 dB
Gain, Low Band 32.5 dBi
Gain, Mid Band 32.7 dBi
Gain, Top Band 32.9 dBi

Operating Frequency Band 14.400 – 15.350 GHz

Radiation Pattern Envelope Reference (RPE) 7006C
Return Loss 17.7 dB
VSWR 1.30

Mechanical Specifications

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

Mounting Pipe Diameter 50 mm-120 mm | 2.0 in-4.7 in

Net Weight 6 kg | 12 lb

Side Struts, Included 0
Side Struts, Optional 0

Wind Velocity Operational 180 km/h | 112 mph



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Wind Velocity Survival Rating 250 km/h | 155 mph

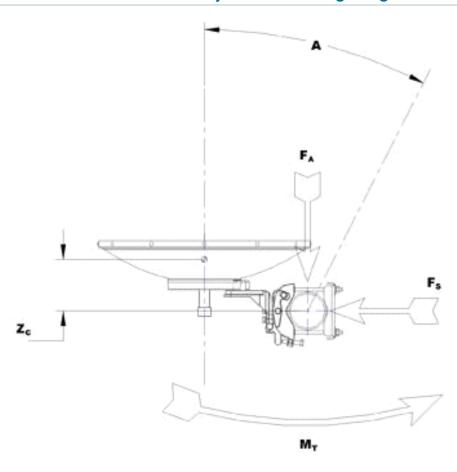
Wind Forces At Wind Velocity Survival Rating

Axial Force (FA)	446 N 100 lbf
Side Force (FS)	198 N 45 lbf
Twisting Moment (MT)	144 N∙m
Weight with 1/2 in (12 mm) Radial Ice	12 kg 26 lb
Zcg with 1/2 in (12 mm) Radial Ice	54 mm 2 in
Zcg without Ice	28 mm 1 in



VHLP1-15-GT1 & VHLP1-15-GT2

Wind Forces At Wind Velocity Survival Rating Image



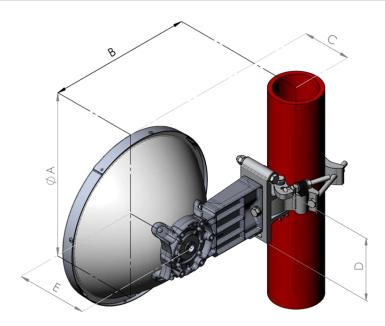
Packed Dimensions

Gross Weight, Packed Antenna	8.0 kg 17.6 lb
Height	350.0 mm 13.8 in
Length	400.0 mm 15.7 in
Volume	0.1 m ³
Width	400.0 mm 15.7 in



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Antenna Dimensions And Mounting Information



Dimensions in inches (mm)							
Antenna size, ft (m)	Α	В	С	D	E		
1 (0.3)	15(382)	12.7(323)	6(151)	6.1 (155)	7(177)		

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 $180^{\circ} \pm 40^{\circ}$, across the band. Production antennas do not exceed rated values by more than 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



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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.