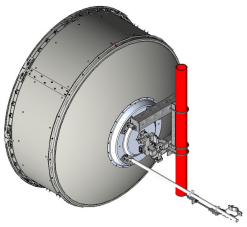
# HX6-611-6WH/B



1.8m | 6ft ValuLine® High Performance, High XPD Antenna, dual-band, dual-polarized, 5.925 – 7.125 GHz & 10.0 -11.7GHz

## Product Classification

| | |
|---|---|
| **Product Type** | Microwave antenna |
| **Product Brand** | ValuLine® |

## General Specifications

| | |
|---|---|
| **Antenna Type** | HX - ValuLine® High Performance, High XPD Antenna, dual-polarized |
| **Polarization** | Dual |
| **Antenna Input** | CPR137G \| CPR90G |
| **Antenna Color** | White |
| **Reflector Construction** | One-piece reflector |
| **Radome Color** | Gray |
| **Radome Material** | Fabric |
| **Flash Included** | No |
| **Side Struts, Included** | 1 |

## Dimensions

| | |
|---|---|
| **Diameter, nominal** | 1.8 m \| 6 ft |

## Electrical Specifications

| | |
|---|---|
| **Operating Frequency Band** | 5.925 – 7.125 GHz |
| **Gain, Low Band** | 38.4 dBi |
| **Gain, Mid Band** | 39.3 dBi |
| **Gain, Top Band** | 40.2 dBi |
| **Boresite Cross Polarization Discrimination (XPD)** | 33 dB |
| **Front-to-Back Ratio** | 66 dB |
| **Beamwidth, Horizontal** | 1.8 ° |
| **Beamwidth, Vertical** | 1.8 ° |



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| | |
|---|---|
| **Return Loss** | 20 dB |
| **VSWR** | 1.22 |
| **Radiation Pattern Envelope Reference (RPE)** | 7453B |
| **Electrical Compliance** | ACMA FX03_6b, 6p7b \| Brazil Anatel Class 3 \| Canada SRSP 305.9 Part A \| Canada SRSP 306.4 Part A \| ETSI 302 217 Class 3 \| US FCC Part 101A |
| **Cross Polarization Discrimination (XPD) Electrical Compliance** | ETSI EN 302217 XPD Category 2 |

## Electrical Specifications, Band 2

| | |
|---|---|
| **Operating Frequency Band** | 10.000 – 11.700 GHz |
| **Gain, Low Band** | 42.5 dBi |
| **Gain, Mid Band** | 43.3 dBi |
| **Gain, Top Band** | 44 dBi |
| **Beamwidth, Horizontal** | 1 ° |
| **Beamwidth, Vertical** | 1 ° |
| **Boresite Cross Polarization Discrimination (XPD)** | 33 dB |
| **Cross Polarization Discrimination (XPD) Electrical Compliance** | ETSI EN 302217 XPD Category 2 |
| **Electrical Compliance** | ACMA FX03_10a \| ACMA FX03_11b \| 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 |
| **Radiation Pattern Envelope Reference (RPE)** | 7454B |
| **Return Loss** | 20 dB |
| **VSWR** | 1.22 |

## Mechanical Specifications

| | |
|---|---|
| **Compatible Mounting Pipe Diameter** | 115 mm–120 mm \| 4.5 in–4.7 in |
| **Fine Azimuth Adjustment Range** | ±15° |
| **Fine Elevation Adjustment Range** | ±5° |
| **Wind Speed, operational** | 200 km/h \| 124.274 mph |
| **Wind Speed, survival** | 200 km/h \| 124.274 mph |

## Wind Forces at Wind Velocity Survival Rating



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| | |
|---|---|
| **Axial Force (FA)** | 6960 N \| 1,564.671 lbf |
| **Angle α for MT Max** | -130 ° |
| **Side Force (FS)** | 1566 N \| 352.051 lbf |
| **Twisting Moment (MT)** | 363 N-m \| 3,212.821 in lb |
| **Force on Inboard Strut Side** | 4075 N \| 916.097 lbf |
| **Zcg without Ice** | 363 mm \| 14.291 in |
| **Zcg with 1/2 in (12 mm) Radial Ice** | 541 mm \| 21.299 in |
| **Weight with 1/2 in (12 mm) Radial Ice** | 237 kg \| 522.495 lb |

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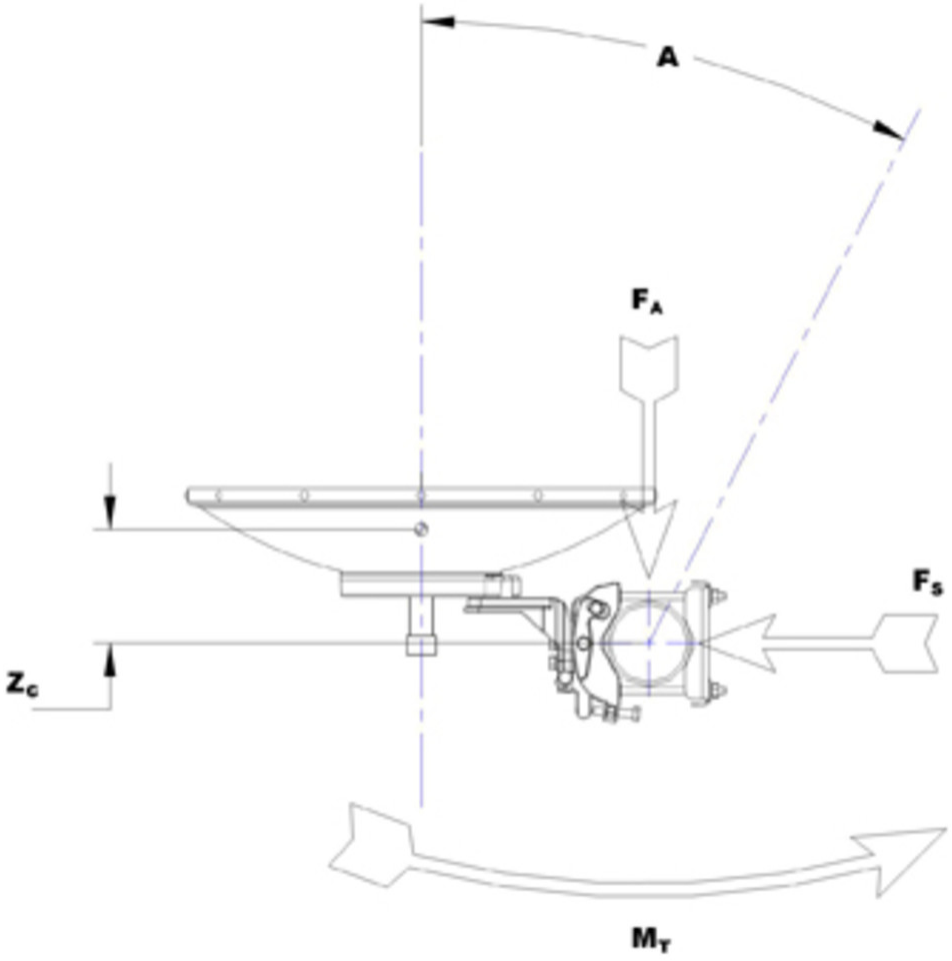
## Wind Forces at Wind Velocity Survival Rating Image




## Packaging and Weights

| | |
|---|---|
| **Height, packed** | 2128 mm \| 83.78 in |
| **Width, packed** | 544 mm \| 21.417 in |
| **Length, packed** | 1895 mm \| 74.606 in |
| **Packaging Type** | Standard pack |
| **Weight, gross** | 152 kg \| 335.102 lb |
| **Weight, net** | 90 kg \| 198.416 lb |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| CHINA-ROHS | Below maximum concentration value |



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| | |
|---|---|
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

## * 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 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. |
| **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 |
| **Wind Speed, operational** | For VHLP(X), SHP(X), HX and USX antennas, the wind speed |



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| | |
|---|---|
| | 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 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. |

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