HPX10-71W-R2M



3.0 m | 10 ft High Performance Parabolic Shielded Antenna, dual-polarized, 7.125–8.500 GHz, UBR84, gray antenna, standard white radome without flash, standard pack—two-piece reflector

Product Classification

Product Type Microwave antenna

General Specifications

Antenna Type HPX - High Performance Parabolic Shielded Antenna, dual-polarized

Diameter, nominal3.0 m | 10 ftPackingStandard pack

Radome ColorWhiteRadome MaterialStandard

Reflector Construction Two-piece reflector

Antenna Input UBR84
Antenna Color Gray

Antenna Type HPX - High Performance Parabolic Shielded Antenna, dual-polarized

Diameter, nominal 3.0 m | 10 ft

Flash Included No Polarization Dual

Electrical Specifications

Operating Frequency Band 7.125 – 8.500 GHz

Beamwidth, Horizontal 0.9° 090 Beamwidth, Vertical **Cross Polarization Discrimination (XPD)** 30 dB **Electrical Compliance** ETSI Class 2 Front-to-Back Ratio 70 dB Gain, Low Band 44.1 dBi Gain, Mid Band 44.9 dBi Gain, Top Band 45.5 dBi

Operating Frequency Band 7.125 – 8.500 GHz

Radiation Pattern Envelope Reference (RPE) 2864A Return Loss 26.4 dB

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HPX10-71W-R2M

VSWR 1.10

Mechanical Specifications

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

 Mounting Pipe Diameter
 115 mm | 4.5 in

 Net Weight
 261 kg | 575 lb

Side Struts, Included 1 inboard 1 outboard

Side Struts, Optional 2 outboard

Wind Velocity Operational110 km/h68 mphWind Velocity Survival Rating200 km/h125 mph

Wind Forces At Wind Velocity Survival Rating

Angle α for MT Max -110 °

Axial Force (FA) 17632 N | 3964 lbf Force on Inboard Strut Side 5870 N | 1320 lbf Force on Outboard Strut Side 8840 N | 1987 lbf 8734 N | 1963 lbf Side Force (FS) **Twisting Moment (MT)** -8630 N-m | -6365 ft lb Weight with 1/2 in (12 mm) Radial Ice 577 kg | 1272 lb Zcg with 1/2 in (12 mm) Radial Ice 818 mm | 32 in Zcg without Ice 767 mm | 30 in

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Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

 Gross Weight, Packed Antenna
 513.0 kg | 1131.0 lb

 Height
 1930.0 mm | 76.0 in

 Length
 3140.0 mm | 123.6 in

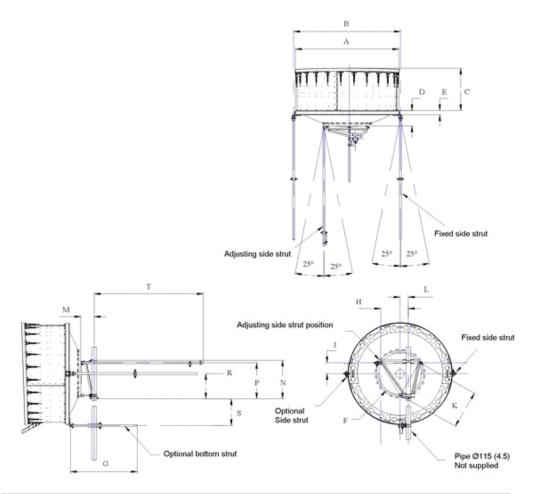
Volume 7.7 m^3

Width 1170.0 mm | 46.1 in

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Antenna Dimensions And Mounting Information



	ANTENNA DIMENSIONS All dimensions in mm (inches)					
A	3160 (124.5)	К	950 (37.5)			
В	3315 (130.5)	j.L	200 (8)			
С	800 (31.5)	М	330 (13)			
D	615 (24.25)	N	950 (37.5)			
E	140 (5.5)	Р	895 (35.25)			
F	1100 (43.25)	R	625 (24.5)			
G	1525 (60)	s	1000 (39.25)			
н	680 (26.75)	Т	3050 (120)			
J _j	275 (10.75)					

Regulatory Compliance/Certifications

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HPX10-71W-R2M

Agency Classification

ISO 9001:2015 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 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 throughout

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

PackingAndrew 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 LossThe 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

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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

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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

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ice.

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HPX10-71W



3.0 m | 10 ft High Performance Parabolic Shielded Antenna, dual-polarized, 7125–8500 GHz

Product Classification

Product Type Microwave antenna

General Specifications

Antenna Type HPX - High Performance Parabolic Shielded Antenna, dual-polarized

Diameter, nominal 3.0 m | 10 ft

Polarization Dual

Electrical Specifications

Beamwidth, Horizontal 0.9° Beamwidth, Vertical 0.9 ° Cross Polarization Discrimination (XPD) 30 dB **Electrical Compliance** ETSI Class 2 Front-to-Back Ratio 70 dB Gain, Low Band 44.1 dBi Gain, Mid Band 44.9 dBi Gain, Top Band 45.5 dBi

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HPX10-71W

Zcg without Ice

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Wind Forces At Wind Velocity Survival Rating

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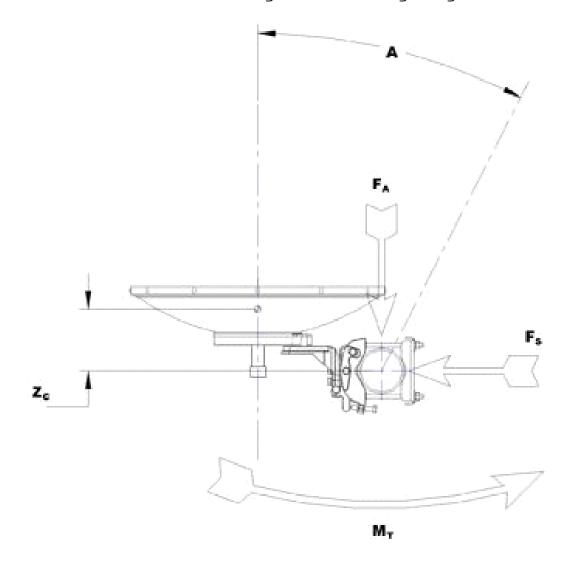
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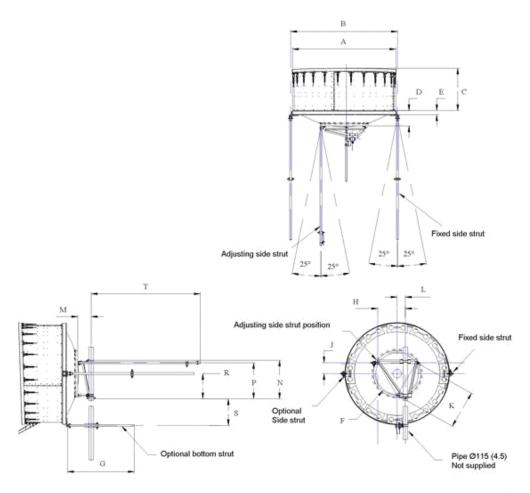




Wind Forces At Wind Velocity Survival Rating Image



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