UHX8-127-B3M



2.4 m | 8 ft Ultra High Performance Parabolic Shielded Antenna, dual-polarized, 12.700–13.250 GHz, PBR120, gray antenna, enhanced white radome with flash, standard pack—two-piece reflector

OBSOLETE

This product was discontinued on: February 1, 2019

Replaced By:

USX8-13W-2GF 2.4m | 8ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, 12.200 – 13.250

GHz, grey, PBR120 flange

Product Classification

Product Type Microwave antenna

General Specifications

Antenna Type UHX - Ultra High Performance Parabolic Shielded Antenna, dual-polarized

Diameter, nominal2.4 m | 8 ftPackingStandard pack

Radome ColorWhiteRadome MaterialEnhanced

Reflector Construction Two-piece reflector

Antenna Input PBR120
Antenna Color Gray

Antenna Type UHX - Ultra High Performance Parabolic Shielded Antenna, dual-polarized

Diameter, nominal 2.4 m | 8 ft

Flash Included Yes
Polarization Dual

Electrical Specifications

Operating Frequency Band 12.700 – 13.250 GHz

Beamwidth, Horizontal0.7 °Beamwidth, Vertical0.7 °Cross Polarization Discrimination (XPD)32 dB

Electrical Compliance ETSI Class 3 | US FCC Part 101A | US FCC Part 74A | US FCC Part 78A

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Front-to-Back Ratio80 dBGain, Low Band47.5 dBiGain, Mid Band47.6 dBiGain, Top Band47.8 dBi

Operating Frequency Band 12.700 – 13.250 GHz Radiation Pattern Envelope Reference (RPE) 1255H | 1256H

 Return Loss
 26.4 dB

 VSWR
 1.10

Mechanical Specifications

Fine Azimuth Adjustment $\pm 5^{\circ}$ Fine Elevation Adjustment $\pm 5^{\circ}$

 Mounting Pipe Diameter
 115 mm | 4.5 in

 Net Weight
 227 kg | 500 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) 11284 N | 2537 lbf Force on Inboard Strut Side 4260 N | 958 lbf Force on Outboard Strut Side 5630 N | 1266 lbf Side Force (FS) 5590 N | 1257 lbf **Twisting Moment (MT)** -4901 N-m | -3615 ft lb Weight with 1/2 in (12 mm) Radial Ice 454 kg | 1001 lb Zcg with 1/2 in (12 mm) Radial Ice 729 mm | 29 in Zcg without Ice 673 mm | 26 in





Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

Gross Weight, Packed Antenna	421.0 kg	928.1 lb
Height	1590.0 mm	62.6 in
Length	2740.0 mm	107.9 in

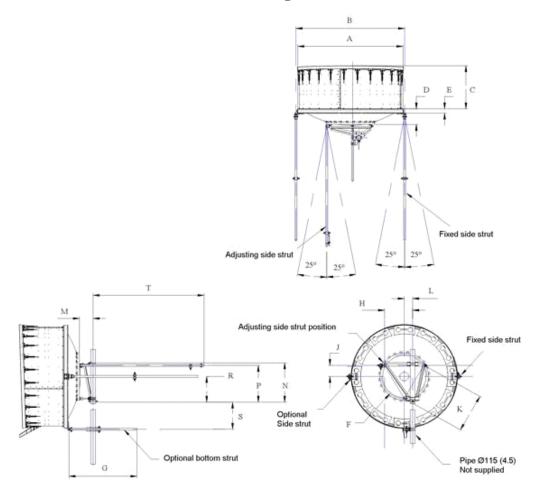
Volume 5.1 m³

Width 1160.0 mm | 45.7 in

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Antenna Dimensions And Mounting Information



ANTENNA DIMENSIONS All dimensions in mm (inches)				
A	2555 (100.5)	K	950 (37.5)	
В	2705 (106.5)	, L ₂	200 (8)	
С	1060 (41.75)	М	330 (13)	
D	395 (15.5)	N	950 (37.5)	
E	125 (5.0)	Р	895 (35.25)	
F	1100 (43.25)	R	625 (24.5)	
G	1525 (60)	S	695 (27.25)	
н	680 (26.75)	T;	3050 (120)	
J	275 (10.75)			

Regulatory Compliance/Certifications

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UHX8-127-B3M

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 BandFor 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 BandBands 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

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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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Wind Forces At Wind Velocity Survival Rating

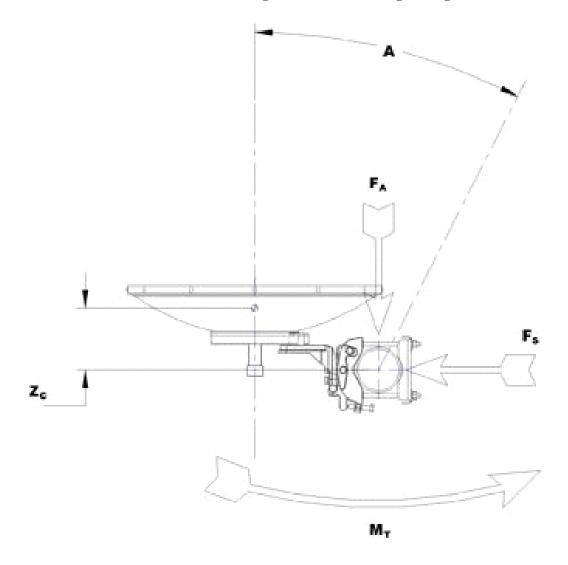
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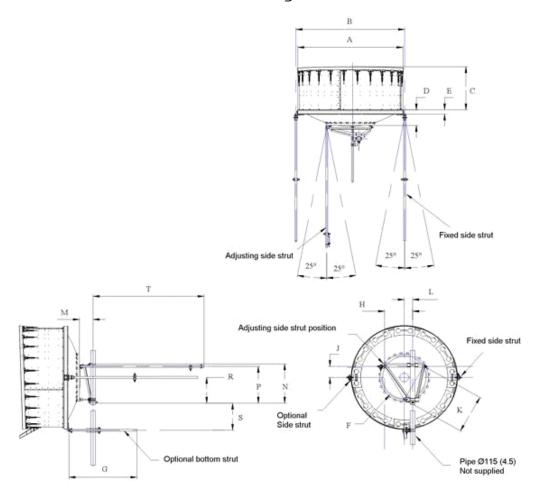


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Wind Forces At Wind Velocity Survival Rating Image



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Regulatory Compliance/Certifications

COMMSCOPE°

UHX8-127

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