





Andrew Solutions

UBP300-2-B

0.3 m | 1.0 ft Flat Panel Directional Antenna for Unlicensed Band, single-polarized, 2.300-2.700 GHz, Type N Female, gray antenna, plastic gray radome without flash, standard pack—one-piece reflector (bulk pack)

General Specifications

Packing Standard pack

Radome Color Gray

Radome Material UV Protected Plastic
Reflector Construction One-piece reflector

Antenna Input N Female
Antenna Color Gray

Antenna Type UB - Directional Antenna for Unlicensed Band, single-polarized

Diameter, nominal 0.3 m | 1 ft

Flash Included No

Includes Mounting kit Polarization Single

Electrical Specifications

Beamwidth, Horizontal 20.0 °
Beamwidth, Vertical 20.0 °
Cross Polarization Discrimination (XPD) 20 dB

Electrical Compliance ETSI 301 525 V1.1.1 (2000-06) Class TS 1

Front-to-Back Ratio 28 dB
Gain, Low Band 15.5 dBi
Gain, Mid Band 17.5 dBi
Gain, Top Band 18.0 dBi

Operating Frequency Band 2.300 – 2.700 GHz

Return Loss 14.0 dB VSWR 1.50

Mechanical Specifications

Fine Elevation Adjustment +40° to -23°

Mounting Pipe Diameter 25 mm-76 mm | 1 in-3 in

Net Weight, per unit with mounting kit 2 kg | 5 lb

Side Struts, Included 0
Side Struts, Optional 0

Wind Velocity Operational 160 km/h | 99 mph Wind Velocity Survival Rating 220 km/h | 137 mph



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Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max

Axial Force (FA)

Side Force (FS)

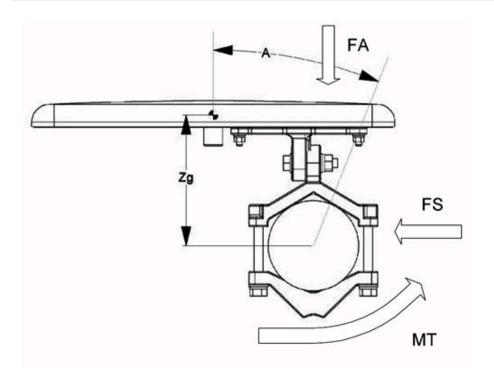
Twisting Moment (MT)

Weight with 1/2 in (12 mm) Radial Ice

Zcg with 1/2 in (12 mm) Radial Ice

To mm | 7 in 2 mm | 6 in 6 mm | 6

Wind Forces At Wind Velocity Survival Rating Image

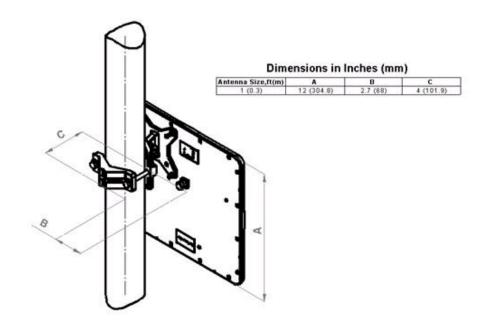




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Antenna Dimensions And Mounting Information



Regulatory Compliance/Certifications

Agency RoHS 2002/95/EC **Classification**Compliant

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 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.

Packing Andrew standard packing is suitable for export. Antennas are shipped as

standard in totally recyclable cardboard or wire-bound crates (dependent on



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VSWR

Twisting Moment (MT)

on the go

product). For your convenience, Andrew offers heavy duty export packing options.

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.

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.

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 $0.3 \times 10^{-3} \times 10^{-$

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.