





PARX 12-59-P7M

3.7 m | 12 ft Parabolic Unshielded Antenna for Relocation-Category A, dual-polarized, 5.925-6.425 GHz, CPR137G, gray antenna, with flash, standard pack—two-piece reflector

General Specifications

Packing Standard pack
Reflector Construction Two-piece reflector

Antenna Input CPR137G
Antenna Color Gray

Antenna Type PARX - Parabolic Unshielded Antenna for Relocation-Category A, dual-

polarized

Diameter, nominal 3.7 m | 12 ft

Flash Included Yes
Polarization Dual

Electrical Specifications

Beamwidth, Horizontal 0.9 °
Beamwidth, Vertical 0.9 °
Cross Polarization Discrimination (XPD) 34 dB

Electrical Compliance ETSI Class 1 | US FCC Part 101A

Front-to-Back Ratio 60 dB
Gain, Low Band 43.3 dBi
Gain, Mid Band 44.7 dBi
Gain, Top Band 45.1 dBi

Operating Frequency Band 5.925 – 6.425 GHz

Radiation Pattern Envelope Reference (RPE) 4380
Return Loss 30.7 dB
VSWR 1.06

Mechanical Specifications

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

Mounting Pipe Diameter $115 \text{ mm} \mid 4.5 \text{ in}$ Net Weight $251 \text{ kg} \mid 553 \text{ lb}$

Side Struts, Included 1 inboard
Side Struts, Optional 1 inboard

Wind Velocity Operational 110 km/h | 68 mph Wind Velocity Survival Rating 200 km/h | 124 mph



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Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max -125 °

Axial Force (FA) 34587 N | 7775 lbf

Side Force (FS) 9441 N | 2122 lbf

Twisting Moment (MT) -15900 N•m

Weight with 1/2 in (12 mm) Radial Ice 243 kg | 536 lb

Zcg with 1/2 in (12 mm) Radial Ice 427 mm | 17 in

Zcg without Ice 343 mm | 14 in



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Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

 Gross Weight, Packed Antenna
 541.0 kg | 1192.7 lb

 Height
 2140.0 mm | 84.3 in

 Length
 3990.0 mm | 157.1 in

Volume 9.1 m³

Width 1070.0 mm | 42.1 in



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Antenna Dimensions And Mounting Information



Regulatory Compliance/Certifications

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

options.

Radiation Pattern Envelope Reference (RPE) Radiation patterns determine an antenna's ability to discriminate against

unwanted signals under conditions of radio congestion. Radiation patterns

are dependent on antenna series, size, and frequency.

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

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.