

on the go





1.8 m | 6 ft High Performance, Super High XPD Parabolic Shielded Antenna, dual-polarized, 7.725–8.275 GHz, CPR112G, gray antenna, enhanced white radome with flash, standard pack—one-piece reflector

General Specifications

Packing Standard pack

Radome Color White
Radome Material Enhanced

Reflector Construction One-piece reflector

Antenna Input CPR112G
Antenna Color Gray

Antenna Type HSX - High Performance, Super High XPD Parabolic Shielded Antenna, dual-

polarized

Diameter, nominal 1.8 m | 6 ft

Flash Included Yes
Polarization Dual

Electrical Specifications

Beamwidth, Horizontal 1.5 °
Beamwidth, Vertical 1.5 °
Cross Polarization Discrimination (XPD) 40 dB
Electrical Compliance ETSLC

Electrical Compliance ETSI Class 3
Front-to-Back Ratio 67 dB
Gain, Low Band 40.7 dBi
Gain, Mid Band 41.0 dBi
Gain, Top Band 41.4 dBi

Operating Frequency Band 7.725 – 8.275 GHz Radiation Pattern Envelope Reference (RPE) 1922B | 1924B

Return Loss 28.3 dB VSWR 1.08

Mechanical Specifications

Fine Azimuth Adjustment ±15°
Fine Elevation Adjustment ±20°

Mounting Pipe Diameter 115 mm | 4.5 in Net Weight 145 kg | 320 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

Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max -130 °



HSX6-77-P3A/C

Axial Force (FA) 7744 N | 1741 lbf Side Force (FS) 3836 N | 862 lbf

Twisting Moment (MT)

Weight with 1/2 in (12 mm) Radial Ice Zcg with 1/2 in (12 mm) Radial Ice Zcg without Ice

2955 N•m 265 kg | 584 lb 660 mm | 26 in 466 mm | 18 in





HSX6-77-P3A/C



Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

Gross Weight, Packed Antenna 308.0 kg | 679.0 lb Height 2120.0 mm | 83.5 in Length 2070.0 mm | 81.5 in Volume 3.9 m³

Width 880.0 mm | 34.6 in



HSX6-77-P3A/C



Antenna Dimensions And Mounting Information



Regulatory Compliance/Certifications

A	Classifisation
Agency	Classification

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 $180^{\circ} \pm 40^{\circ}$, 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.