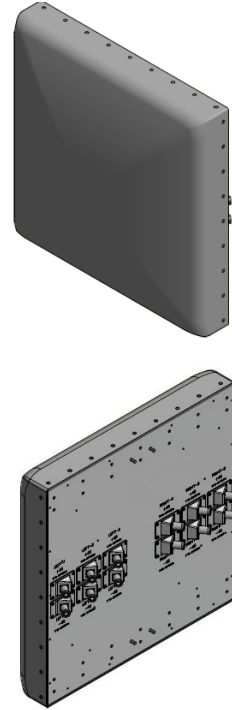


# XAP-HB-311

Antenna Systems Group

X-Pol antenna  
 1710-2170 MHz  
 36" width  
 11° azimuth  
 6 beam antenna

- Special event antenna
- 6 beam array
- Fully utilizes radio equipment
- Deep nulls between beams
- Best cross-over points available



## ELECTRICAL SPECIFICATIONS

Frequency band, MHz	1695-1880	1850-1990	1920-2180
Gain, dBi	20.3	20.8	21.4
Horizontal beamwidth, (HBW)	11°	10°	9.2°
Front-to-Back ratio @180°	30	30	30
Vertical beamwidth, (VBW)	10.7°	10°	9.2°
Polarization	+/-45°		
Electrical downtilt	0°		
Maximum VSWR/ Return Loss, dB	1.5:1/ -14*		
Maximum Passive Intermodulation (PIM), 2 x 20 W carrier, dBc	-150		
Impedance, ohms	50		
Maximum Input power per port, watts	200		

\*With unused ports terminated with 50 ohm loads

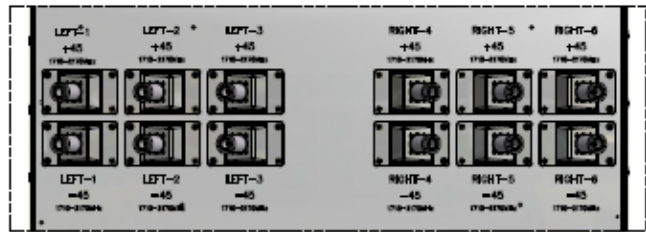
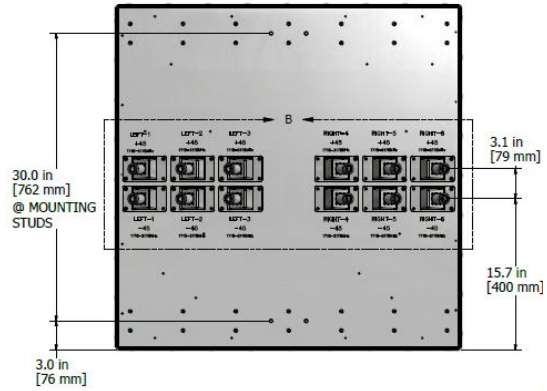
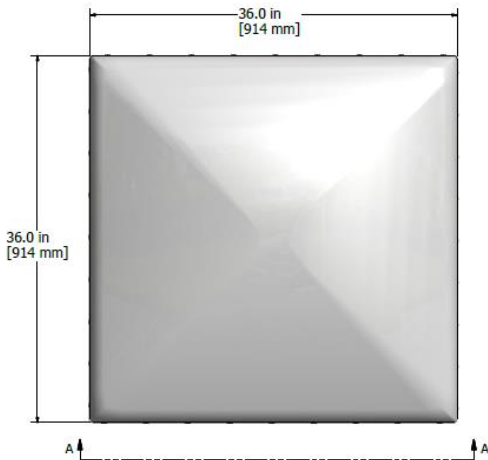
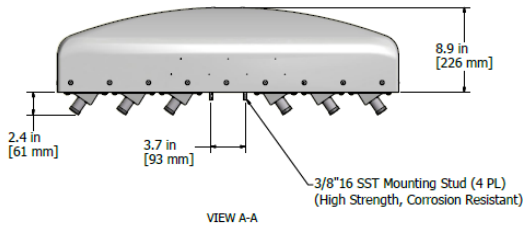
**MECHANICAL SPECIFICATIONS**

Dimensions, length/width/depth	36.0/36.0/8.9 in. (914/914/226 mm)
Connector (quantity) type	(12) 7-16 DIN female
Connector torque	220-265 lbf·in (23-30 N·m)
Connector location	Back
Antenna weight	56.0 lb (25.4 kg)
Bracket weight	15.2 lb (7 kg)
Standard bracket kit	919058
Mechanical downtilt range	0-5°
Radome material	Polyester fiberglass
Wind survival	140 mph (225 km/h)
Front wind load @ 100mph	224 lbf (995.7 N)
Equivalent flat plate @ 100 mph	4.46 sq ft (c=2)

**ORDER INFORMATION**

<b>MODEL</b>	<b>DESCRIPTION</b>
XAP-HB-311	6 beam 1710-2170 MHz, X-Pol antenna

## Mechanical Outline Drawing



DETAIL B