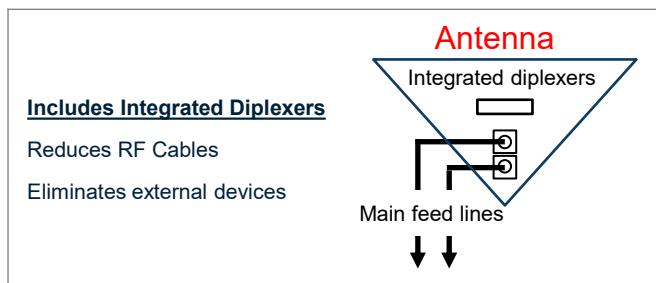
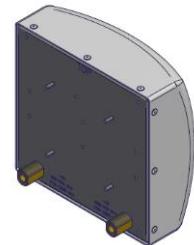
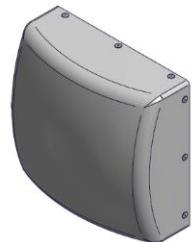


## XEW-165

X-Pol Antenna, 698-945/1710-2360MHz, 12" , 65° H-Beams

- 698-945 MHz low band and 1710-2360 MHz high band
- Widely used stadium antenna
- Includes flexible stadium bracket
- Suitable for WCS/LTE/CDMA/UMTS/GSM



## ELECTRICAL SPECIFICATIONS

Frequency Band, MHz	698-824	824-945	1710-1880	1800-1990	1920-2170	2190-2360
Horizontal Beamwidth, 3dB points	70°	60°	62°	64°	64°	56°
Gain, dBi	7.6	8.0	10.8	11.1	11.4	11.2
Vertical Beamwidth, 3dB points	76°	68°	37°	34°	33°	28°
Front-to-Back at 180°, dB	> 28			> 28		
Upper Side Lobe Supression, Typical, dB	<-18			<-18		
Polarization	+/-45°			+/-45°		
Electrical Downtilt	0°			0°		
VSWR/Return Loss, dB, Maximum	1.7:1/11.8			1.7:1/11.8		
Isolation Between Ports, dB, Minimum	28			28		
Intermodulation (2x20w), IM3, dBc, Maximum	-150			-150		
Impedance, ohms	50			50		
Maximum Power Per Connector, CW (w)	100			100		

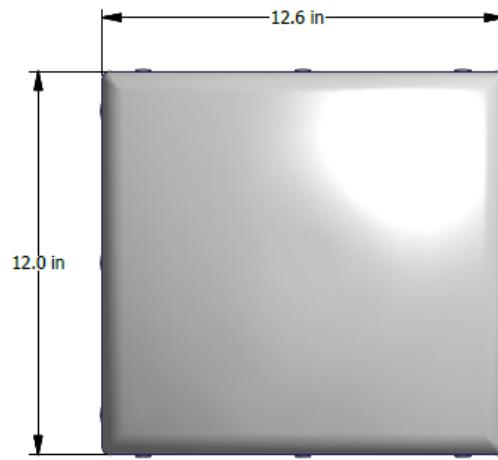
## MECHANICAL SPECIFICATIONS

Dimensions, Length/Width/Depth	12.0/12.6/5.6 in (304.8/320.0/142.2 mm)
Connector (Quantity) Type	(2) 7-16 DIN Female
Connector Torque	220-265 lbf-in (23-30 N-m)
Connector Location	Back
Antenna Weight	10.8 lb (4.9 kg)
Bracket Weight	5.0 lb (2.3 kg)
Standard Bracket Kit	P/N 919050 ( Included )
Mechanical Downtilt Range	+/- 35° Lateral & +/- 55° Vertical
Radome Material	High Strength Luran, UV Stabilized, ASTM D1925
Wind Survival	150 mph (241.4 km/h)
Front Wind Load	26.0 lbf (115.8 N) @100mph
Equivalent Flat Plate	0.52 sq-ft (c=2) @ 100mph

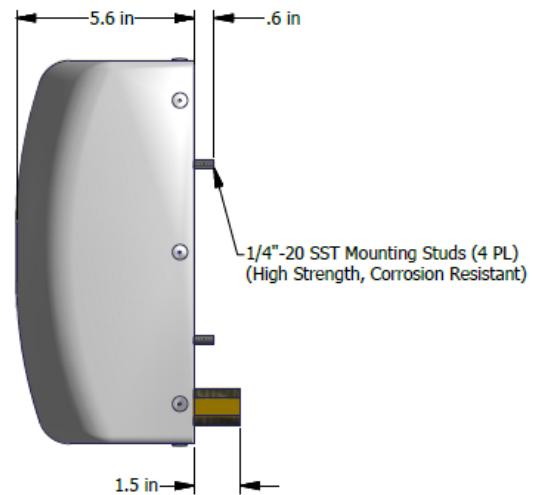
## ORDER INFORMATION

MODEL	DESCRIPTION
XEW-165-IP	X-Pol dual band, 0° electrical downtilt with two DIN connectors and integrated diplexers.
XEW-165-IPN	X-Pol dual band, 0° electrical downtilt with two N-connectors and integrated diplexers.

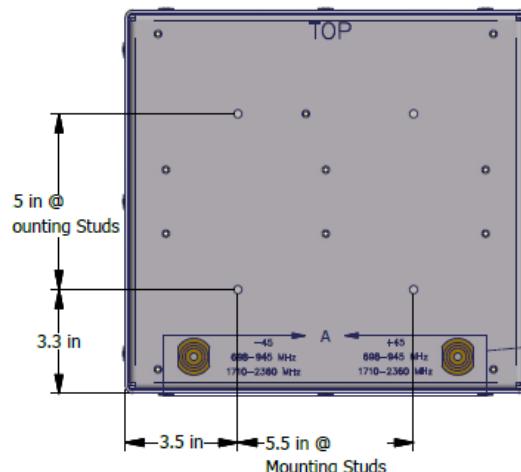
## Mechanical Outline Drawing



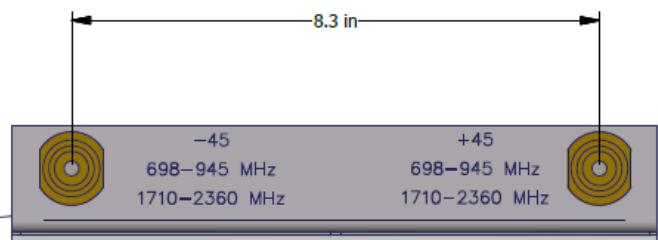
FRONT VIEW



SIDE VIEW

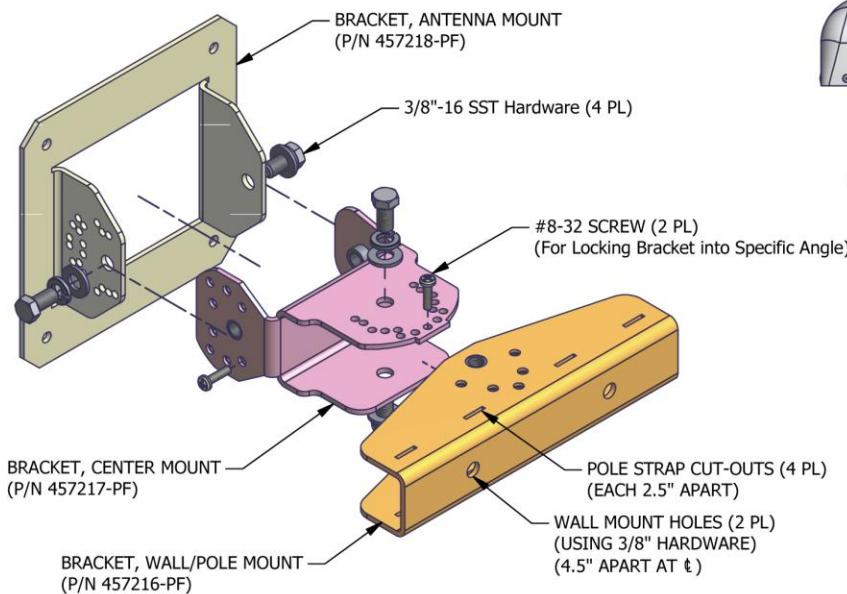


BACK VIEW

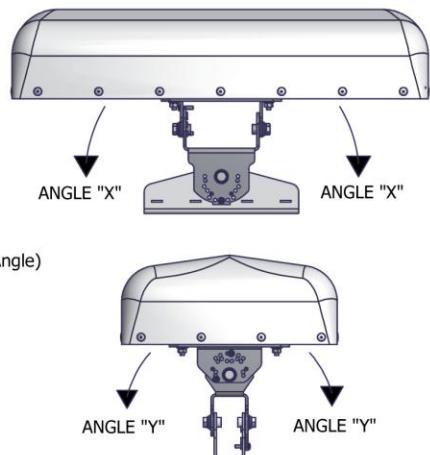


DETAIL A

## Mechanical Outline Drawing

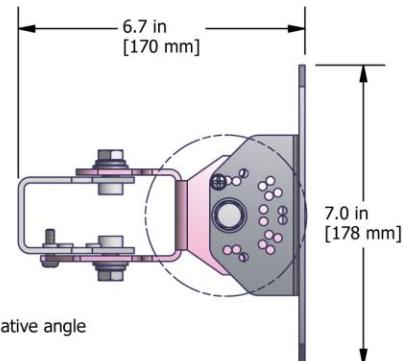
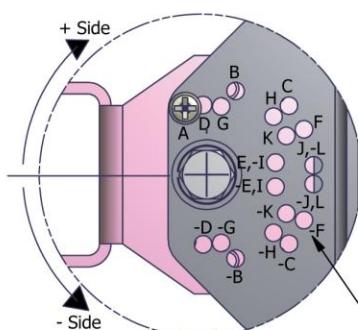


## Stadium Bracket 919050

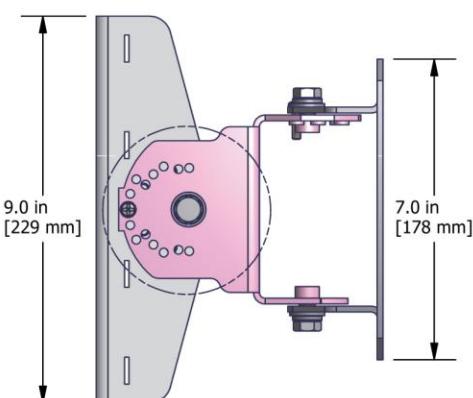
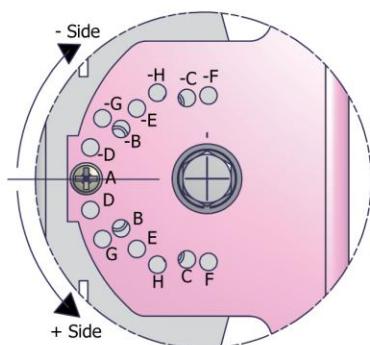


Antenna Size	Maximum Angle (in degree)			
	Pole Mount	Wall Mount	X	Y
1' L x 1' W	35	55	35	55
1' L x 2' W	25	55	25	55
1' L x 3' W	20	55	20	55
2' L x 2' W	25	25	25	25

Mech. Downtilt Table	
Legend	Mech. Downtilt
A	0°
B	5°
C	10°
D	15°
E	20°
F	25°
G	30°
H	35°
I	40°
J	45°
K	50°
L	55°



Mech. Downtilt Table	
Legend	Azimuth Rotation
A	0°
B	5°
C	10°
D	15°
E	20°
F	25°
G	30°
H	35°



Note: If the bracket is used in applications that provide additional tilt to the antenna (e.g. slanted poles, upside down hanging, etc.), different weep holes may be required. Please consult our weep hole guide at [jmawireless.com/support](http://jmawireless.com/support).