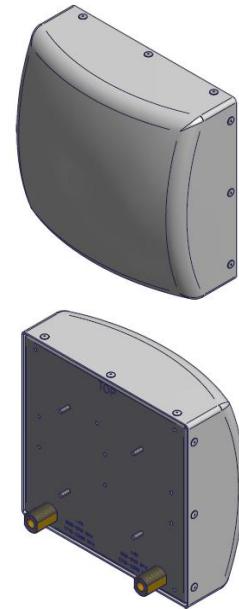


X-pol Dual Band Antenna, 698-960/1695-2700 MHz

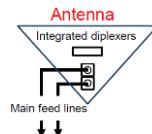
Horizontal beamwidth

- 698-960 MHz low-band and 1695-2700 MHz high-band
- Widely used stadium antenna
- Included multi-position stadium bracket accommodates most mounting surfaces
- Suitable for WCS/LTE/CDMA/UMTS/GSM/WiMAX (Neutral Host)

Available with Integrated Diplexers

Reduces RF cables

Eliminates external devices



ELECTRICAL SPECIFICATIONS

Frequency Band, MHz	698-824	824-960	1695-1920	1920-2200	2200-2360	2360-2700
Horizontal beamwidth, 3 dB points	86°	77°	65°	66°	57°	53°
Gain, dBi	7.1	7.6	10.7	10.5	11.2	11.7
Vertical beamwidth, 3dB points	78°	68°	40°	36°	31°	29°
Front-to-back at 180°, dB	> 20		> 28			
Polarization	+/-45°		+/-45°			
Electrical downtilt	0°		0°			
VSWR / return loss, dB, maximum	1.5:1/14		1.5:1/14			
Isolation between ports, dB, minimum	28		26			
Intermodulation (2 x 20 w), IM3, dBc, maximum	-153		-153			
Impedance, ohms	50		50			
Maximum power per connector, CW (w)	250 @ 800 MHz		125 @ 1900 MHz			

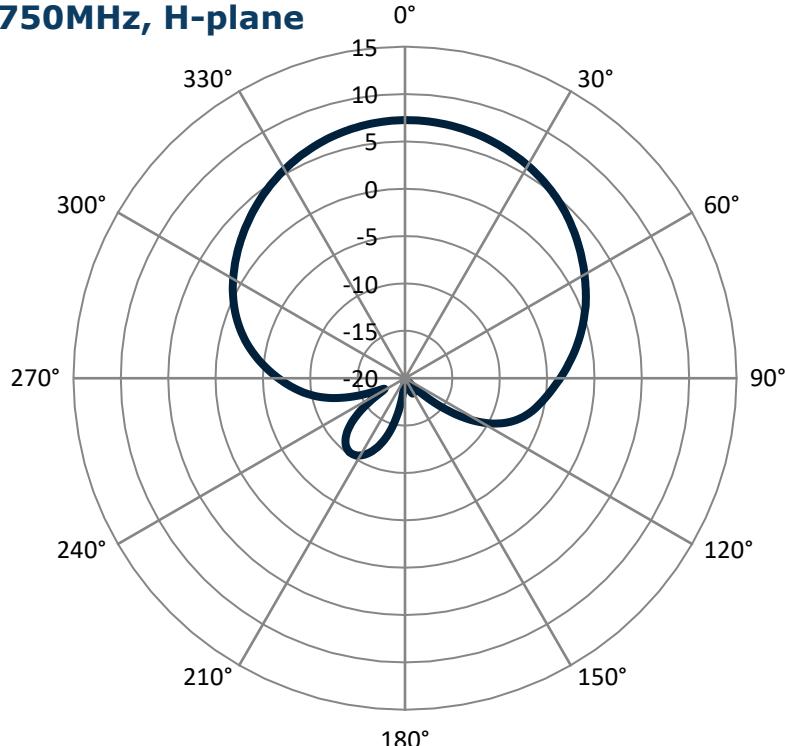
MECHANICAL SPECIFICATIONS

Dimensions, length/width/depth	12.0/12.6/5.6 in. (304.8/320.0/142.2 mm)
Connector (quantity) type	(2 or 4) 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	5.4 lb (2.4 kg)
Standard bracket kit	P/N 919050
Mechanical down tilt 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 @ 100 mph	26.0 lbf (115.8 N)
Equivalent flat plate @ 100 mph	0.52 sq-ft (c=2)

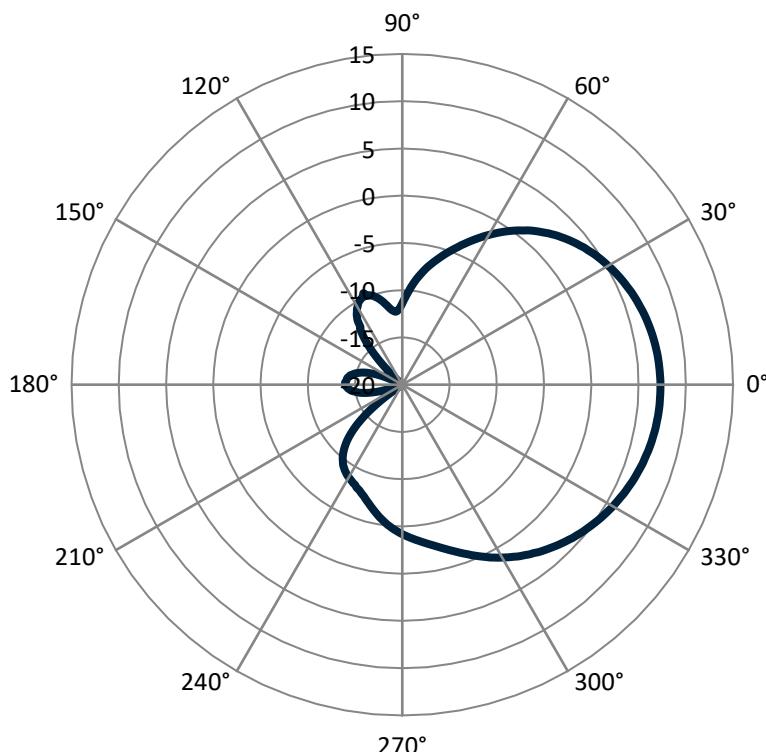
ORDER INFORMATION

MODEL	DESCRIPTION
XGU-165	X-Pol dual band, 0° electrical down tilt with four DIN connectors.
XGU-165-I	X-Pol dual band, 0° electrical down tilt with two DIN connectors and integrated diplexers.
919055	Optional inverted mounting kit for 4.0-10.0 in. OD pole.
91900313	Optional bracket kit for extended horizontal and vertical tilt ranges.

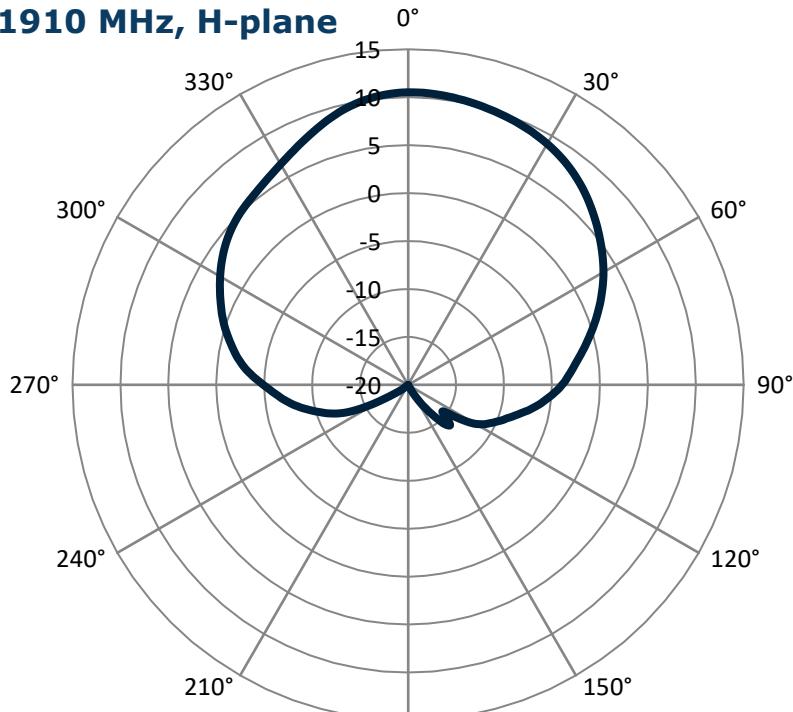
Pattern Plot: 750MHz, H-plane



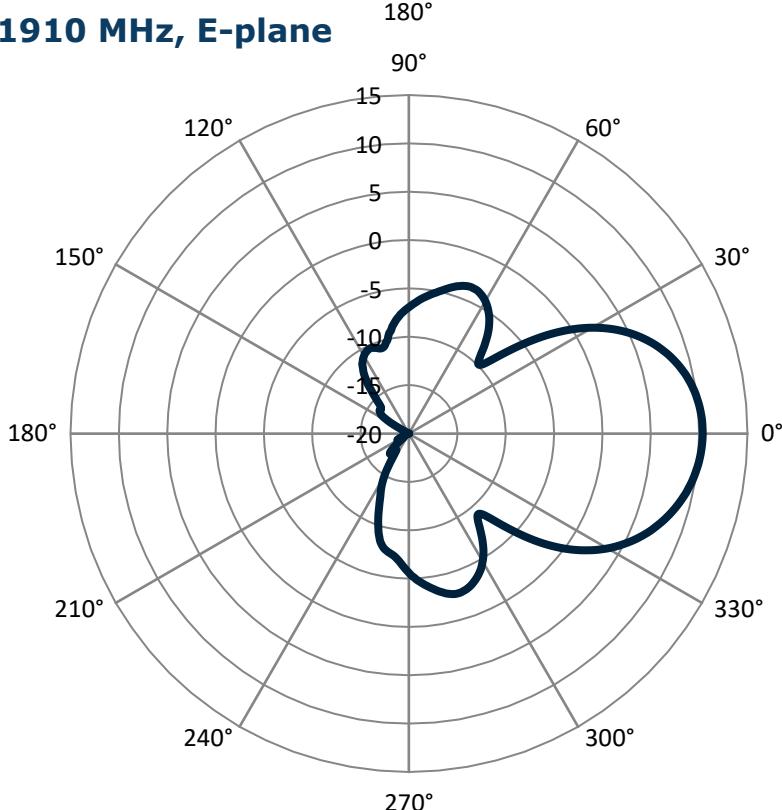
Pattern Plot: 750 MHz, E-plane



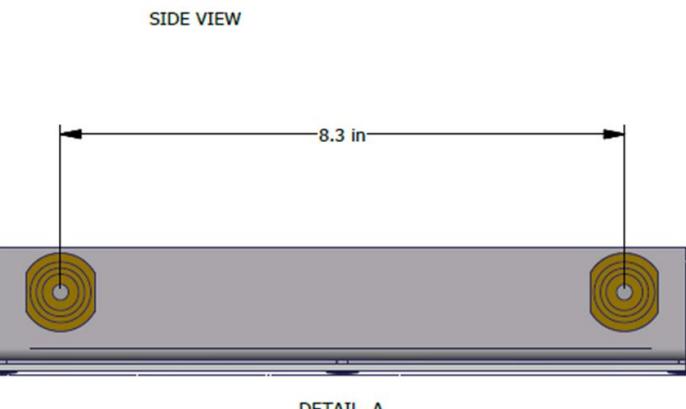
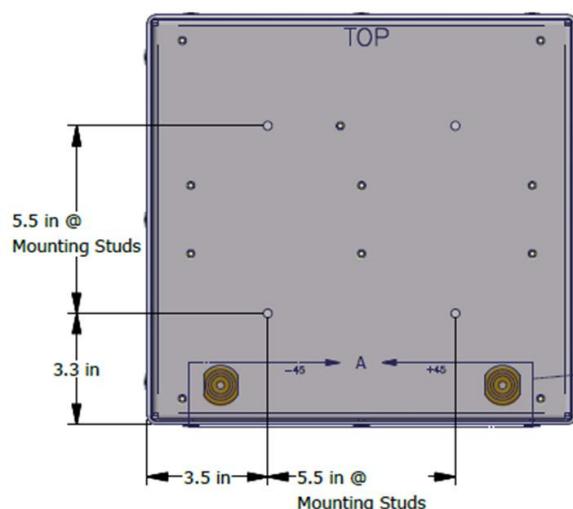
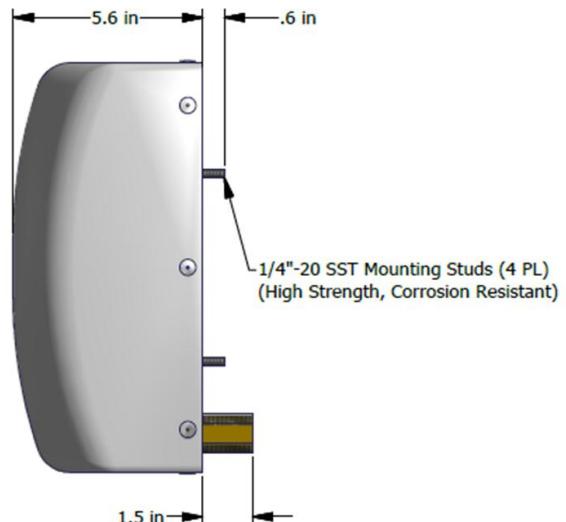
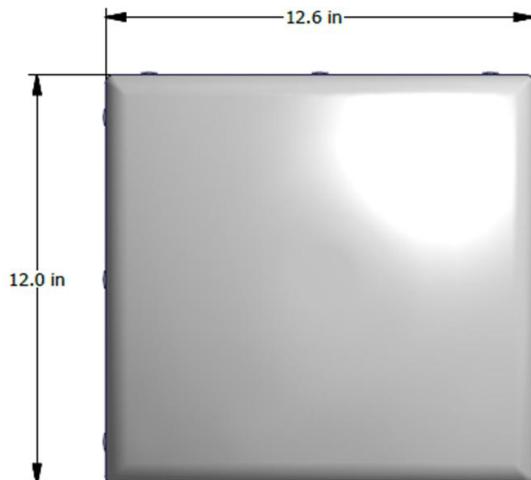
Pattern Plot: 1910 MHz, H-plane



Pattern Plot: 1910 MHz, E-plane

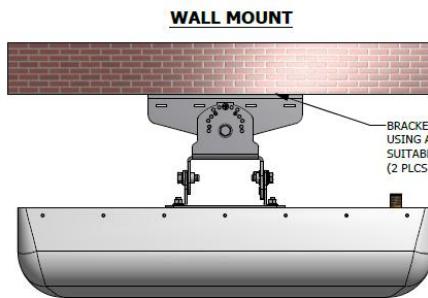


Mechanical Outline Drawing: -I Version

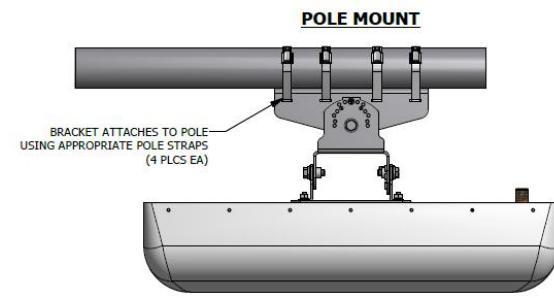


Examples of standard stadium bracket kit 919050 installation

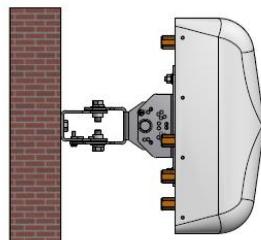
Note: For mounting details, refer to installation drawing, P/N 919050, on the JMA website Antenna Matrix.



PLAN VIEW

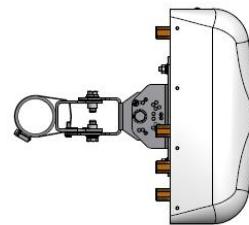


PLAN VIEW



SIDE VIEW

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.



SIDE VIEW