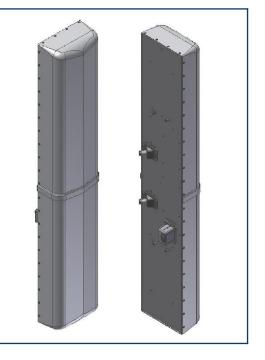
XAP-645-V Antenna Systems Group



X-Pol antenna, 1700–2170 MHz 45° azimuth Variable electrical tilt RET/MET

- Broad band radiator
- Macro cell high gain antenna
- Suitable for LTE/CDMA/UMTS/GSM
- AISG v2.0 RET or manual (MET) tilt control



ELECTRICAL SPECIFICATIONS				
Frequency band, MHz	1710-1880	1850-1990	1920-2170	
Horizontal beamwidth, 3 dB points	50°	44°	44°	
Gain, dBi	18.3	18.5	18.9	
Vertical beamwidth, 3 dB points	5.9°	5.7°	5.4°	
Front-to-back at 180°, dB	29			
Upper sidelobe suppression, typical, dB	<-18			
Polarization	+/-45°			
Electrical down tilt	0-6° or 4-10°			
VSWR/return loss, dB, maximum	1.5:1/-14.0			
Isolation between ports, dB, minimum	-23			
Intermodulation (2 x 20 w), IM3, dBc, maximum	-150			
Impedance, ohms	50			
Maximum power per connector, CW @ 800 MHz	250			
Lightning protection	DC ground			

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MECHANICAL SPECIFICATIONS		
Dimensions, length/width/depth	72/12.5/7.3 in. (1829/318/180 mm)	
Connector (quantity) type	(2) 7-16 DIN female	
Connector torque	220-265 lbf·in (25-30 N-m)	
Connector location	Back	
Antenna weight	29 lbs estimated	
Bracket weight	13.2 lbs (6.0 kg)	
Standard bracket kit	Part #919011 (included)	
Mechanical down tilt range	0-12°	
Radome material	High strength Luran [®] , UV stabilized, ASTM D1925	
Wind survival	150 mph (241 km/h)	
Front wind load	181.3 lbf (806.7 N) @ 100 mph	
Equivalent flat plate	3.61 sq ft (c=2) @ 100 mph	

RET INFORMATION		
Model	RET-200	
Mounting location	Rear of antenna	
Weight	1.2 lbs (0.54 kg)	
Communication standard	AISG 2.0	
Control system	PCU-220	

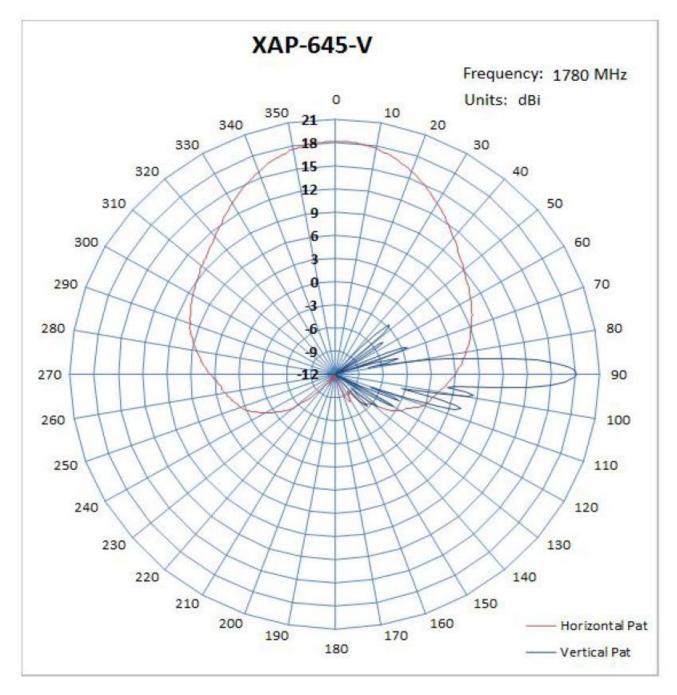


ORDER INFORMATION		
MODEL	DESCRIPTION	
XAP-645-VRO	X-Pol antenna with motor for remote electrical tilt (RET) range of 0-6°	
XAP-645-VR4	X-Pol antenna with motor for remote electrical tilt (RET) range of 4-10°	

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Patterns measured @ 1780 MHz

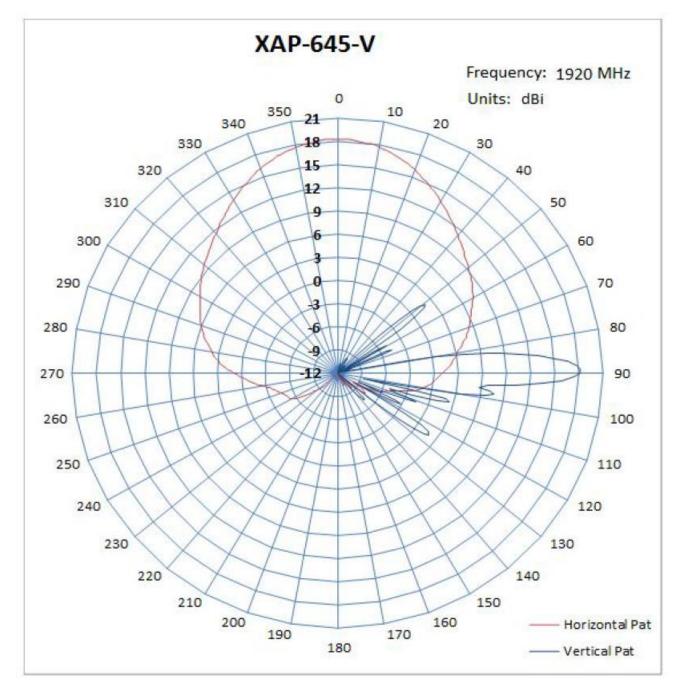


Center = -12 dB, with 3 dB/radial division and 10° angular division

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Patterns measured @ 1920 MHz

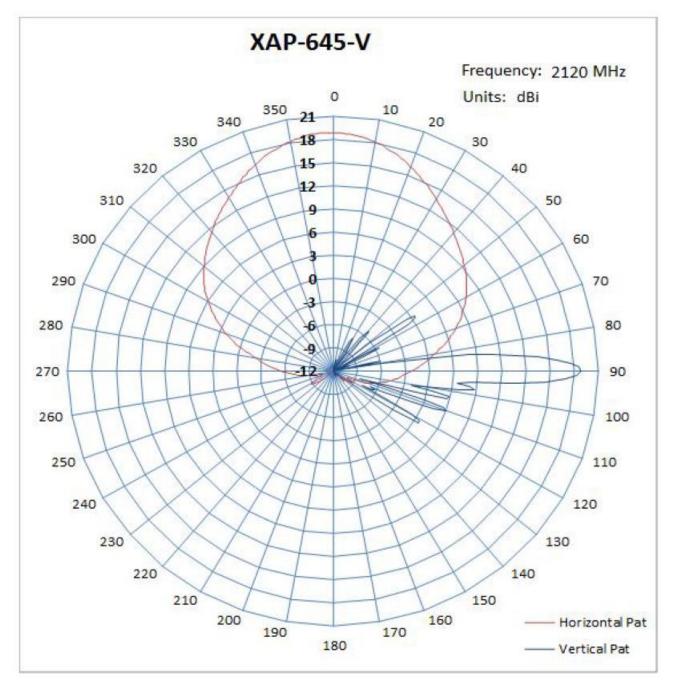


Center = -12 dB, with 3 dB/radial division and 10° angular division

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Patterns measured @ 2120 MHz



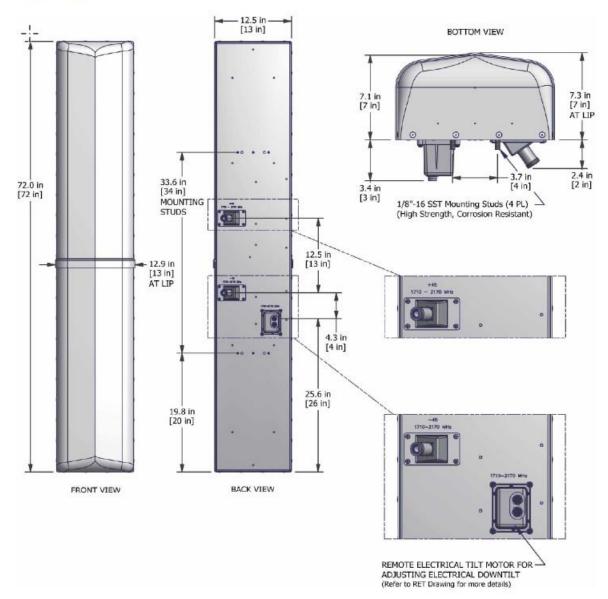
Center = -12 dB, with 3 dB/radial division and 10° angular division

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Mechanical outline drawing

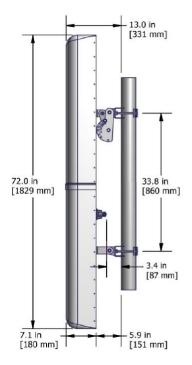


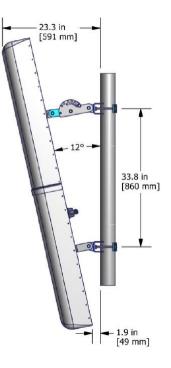


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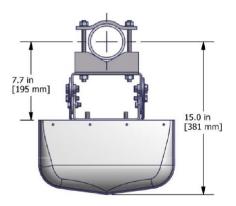


Standard bracket kit



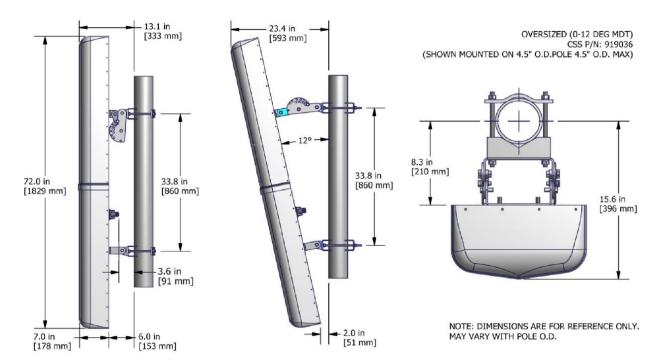


STANDARD (0-12 DEG MDT) CSS P/N: 919011 (SHOWN MOUNTED ON 3.5" O.D.POLE 3.5" O.D. MAX)



NOTE: DIMENSIONS ARE FOR REFERENCE ONLY. MAY VARY WITH POLE O.D.

Optional bracket kit



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