

Dual Band | Quad Port | Panel Antenna | XX-Pol | 69° / 65° | 15.0 / 17.2 dBi | Variable Tilt

- Dual band, quad-port panel antenna with variable electrical tilt
- AWS-3 Ready
- Patented internal RET actuator adds no additional length to the antenna
- Can be ordered with a Multi-Device Dual Unit (MDDU) with two separate inputs for independent control of each band. Ideal for antenna sharing.

Ordering Options	Model Number				
When ordering, replace "x" in the model number with one of the options listed below.					
Manual Electrical Tilt	QUAD656CW000M				
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator	QUAD656CW000G				
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Actuator	QUAD656CW000L				

Mounting bracket kits and other accessories are ordered separately. See options on the following page(s).

Electrical Characteristics			696-960 MHz		1695-2180 MHz			
Frequency Bands (MHz)		696-806	806-960	1695-1850	1850-1990	2100	-2180	
Polarization			±45°		±45°			
Horizontal Beamwidth	ı		74°	69°	65°	63°	6	0°
Vertical Beamwidth		11.7°	9.7°	6.0°	5.5°	5.	.0°	
Gain		14.1 dBi	15.0 dBi	16.7 dBi	16.9 dBi	17.2	2 dBi	
Electrical Downtilt		0-12°		0-10°				
Impedance		50Ω		50Ω				
VSWR		< 1.5:1		< 1.5:1				
Upper Sidelobe Suppression		> 17 dB Typical		> 18 dB Typical				
Front-to-Back Ratio		> 30 dB		> 25 dB				
In-Band Isolation		> 23 dB		> 25 dB				
Isolation Between Ports		> 30 dB		> 30 dB				
IM3 (2x20W carrier)		< -153 dBc		< -153 dBc				
Input Power		(2x) 500 W		(2x) 250 W				
Total Number of Connectors			Antenna has 4 connectors located at the bottom					
Connectors Per Band	696-960 MHz		(2x) 7/16-DIN Female					
	1695-2180) MHz			(2x) 7/16-DIN Female			
Diplexed					No			
Lightning Protection			Direct Ground					
Operating Temperature			-40° to +60° C (-40° to +140° F)					
Mechanical Characte	ristics							
Dimensions (Length x Width x Depth)		1906	x 305 x 180	mm	75.0 x 12	2.0 x 7.1	in	
Weight without Mounting Brackets: MET			15.0	kg		33.0	lbs	
Weight without Mounting Brackets: RET			15.3	kg		33.7	lbs	
Survival Wind Speed			241	km/hr		150	mph	
Wind Loads Front		Front		707	Ν		159	lbf
(160 km/hr or 100 mp	h)	Side		419	N		94	lbf





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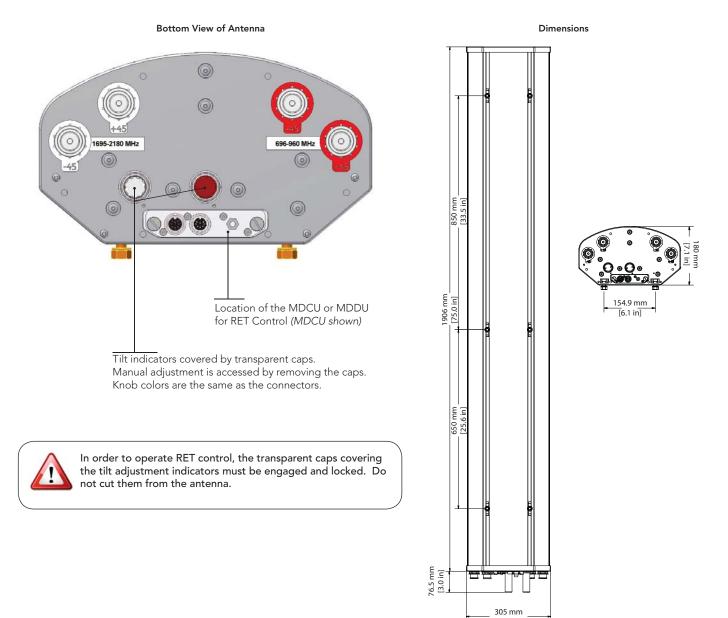
Electrical Downtilt Control							
Electrical downtilt for each band can be co	ntrolled separately. Tilt indicator(s)	are covered by removable	e transparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector ring color. To access the knob, remove the cap by turning it counter- clockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna.						
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by either a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) inserted in the bottom of the antenna. A single actuator individually controls the tilt of each band (no need for daisy chain cables between the bands). This module does not add any additional length to the antenna. For RET control, the transparent caps must be in place and locked. The tilt angle indicators always remain visible and the antenna still has manual tilt control (manual override).						
RET Actuator	Select one of the following RET	Select one of the following RET actuators when ordering this antenna.					
	Multi-Device Control Unit (MCE	DU) downtilt (RET) in A	The MDCU is an electronic module that allows the remote control of the electrical downtilt (RET) in Amphenol antennas with factory embedded motors. The MDCU is factory installed. Refer to ordering options.				
	Multi-Device Dual Unit (MDDU)	in Amphenol anter	The MDDU allows two separate RET Controllers to independently drive the RETs in Amphenol antennas with factory installed motors (for antenna sharing). The MDDU is factory installed. Refer to ordering options.				
Important Installation Instructions	s must be engaged and						
	Do not install the antenna with the connectors facing upward.						
Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight			
All mounting bracket kits are ordered sepa	rately unless otherwise indicated. S	elect from the options liste	ed below.				
3-Point Mounting Bracket Kit	MKS09P02		50-115 mm 2.0-4.5 in	4.1 kg 9 lbs			
3-Point Mounting & Downtilt Bracket Kit	MKS09T02		50-115 mm 2.0-4.5 in	6.4 kg 14 lbs			



[12.0 in]

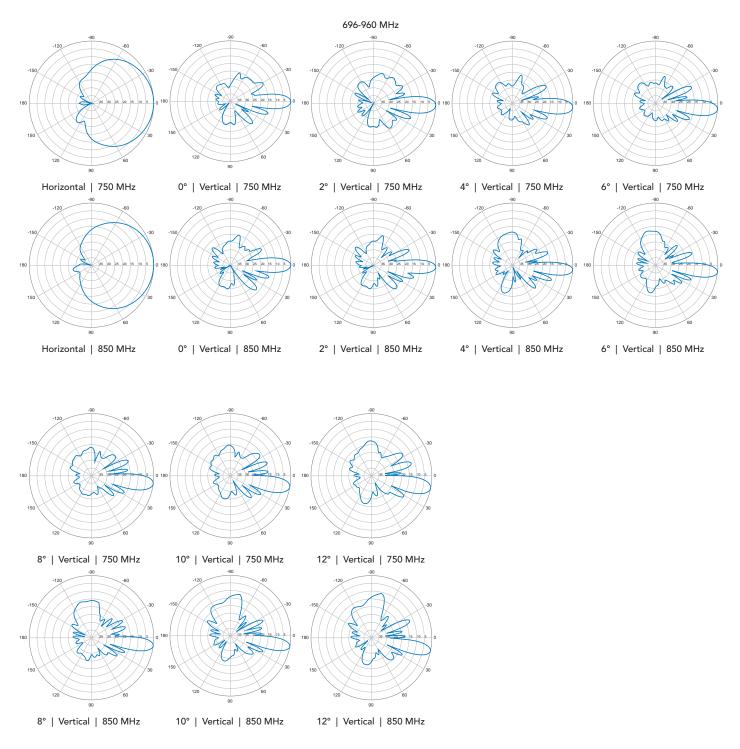
QUAD656CW000x

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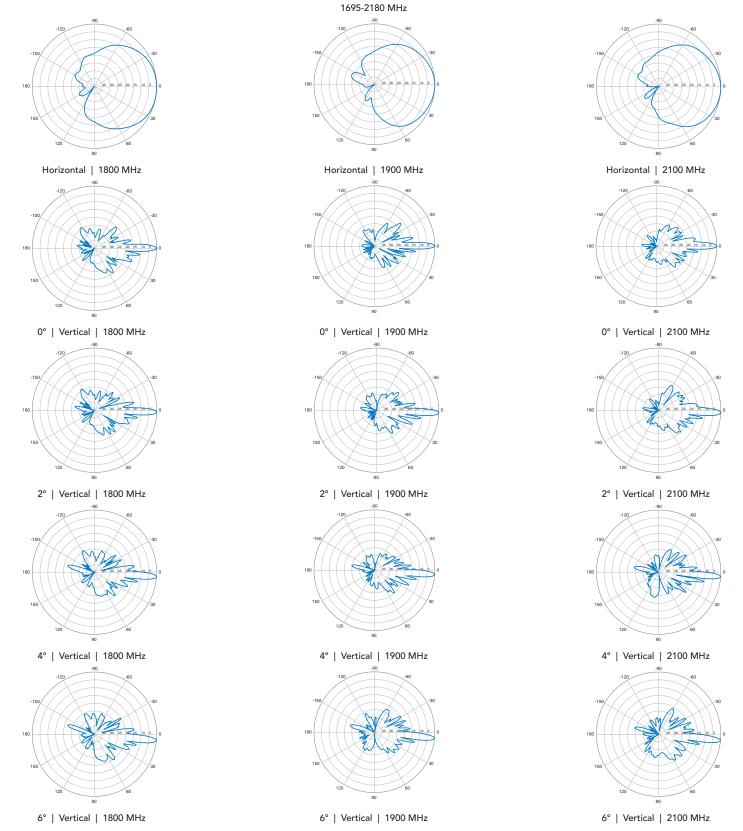


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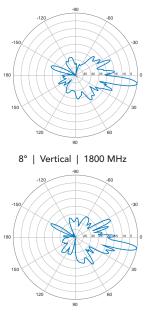
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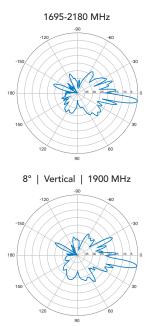
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.



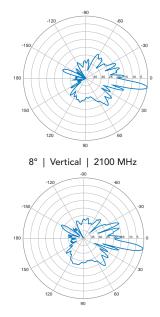
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10° | Vertical | 1800 MHz



10° | Vertical | 1900 MHz



10° | Vertical | 2100 MHz