

Dual Band | Quad Port | Panel Antenna | XX-Pol | 70° / 65° | 15.8 / 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	QUAD658CW000M			
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator	QUAD658CW000 G			
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Actuator	QUAD658CW000L			

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 (MF	łz)		696-806	806-960	1695-1850 1850-1990 2100-2180			-2180
Polarization			±4	!5°		±45°		
Horizontal Beamwidth	1		75°	70°	65°	63°	6	0°
Vertical Beamwidth			9.2°	7.9°	6.0°	5.5°	5.	.0°
Gain			15.1 dBi	15.8 dBi	16.7 dBi	16.9 dBi	17.2	2 dBi
Electrical Downtilt			0-1	10°		0-10°		
Impedance			50	Ω	50Ω			
VSWR	VSWR		< 1	.5:1	< 1.5:1			
Upper Sidelobe Supp	ression		> 18 dB	3 Typical	> 18 dB Typical			
Front-to-Back Ratio		> 30 dB		> 30 dB				
In-Band Isolation			> 23	3 dB		> 25 dB		
Isolation Between Por	en Ports			> 30 dB		> 30 dB		
IM3 (2x20W carrier)		< -153 dBc		< -153 dBc				
Input Power			(2x) 5	00 W	W (2x) 250 W			
Total Number of Connectors			Antenna has 4 connectors located at the bottom					
	696-960 MHz		(2x) 7/16-DIN Female					
Connectors Per Band	1695-2180) MHz			(2x) 7/16-DIN Female			
Diplexed			No					
Lightning Protection	ning Protection Direct Ground							
Operating Temperatu	re	-40° to +60° C (-40° to +140° F)						
Mechanical Characte	ristics							
Dimensions (Length x Width x Depth)		2508	x 305 x 180	mm	98.7 x 12	2.0 × 7.1	in	
Weight without Mounting Brackets: MET			17.2	kg		38.0	lbs	
Weight without Mounting Brackets: RET			17.6	kg		38.7	lbs	
Survival Wind Speed			241	km/hr		150	mph	
Wind Loads		Front		930	N		209	lbf
(160 km/hr or 100 mp	h)	Side		550	N		124	lbf



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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Electrical Downtilt Control					
Electrical downtilt for each band can be o	controlled separately. Tilt indicator(s) are c	overed by removable transparent cap(s).			
Manual Electrical Tilt (MET) Control	identical to the corresponding conn	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 counterclockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna.			
Remote Electrical Tilt (RET) Control	Dual Unit (MDDU) inserted in the bo need for daisy chain cables between RET control, the transparent caps m	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 actuators when ordering this antenna.				
	Multi-Device Control Unit (MCDU)	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)	The MDDU allows two separate RET Controllers to independently drive the RE in Amphenol antennas with factory installed motors (for antenna sharing). The MDDU is factory installed. Refer to ordering options.			
Important Installation Instructions	In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and				



In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.

Do not install the antenna with the connectors facing upward.

	Do not install the different with the conflictors facility apward.						
Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight			
All mounting bracket kits are ordered separately unless otherwise indicated. Select from the options listed 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			

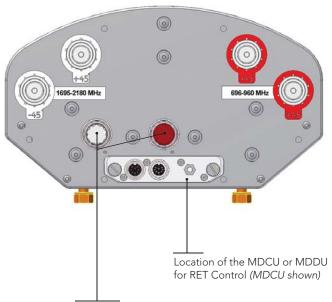
Dimensions



QUAD658CW000x

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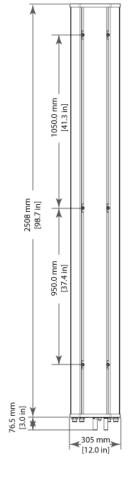
Bottom View of Antenna

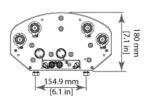


Tilt indicators covered by transparent caps.

Manual adjustment is accessed by removing the caps.

Knob colors are the same as the connectors.



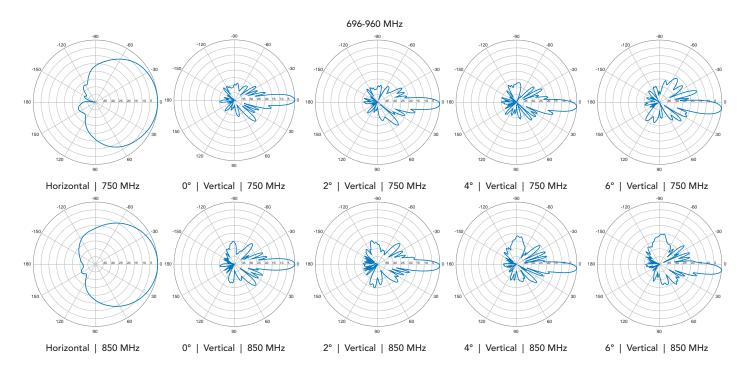


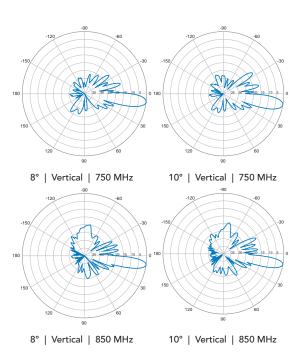


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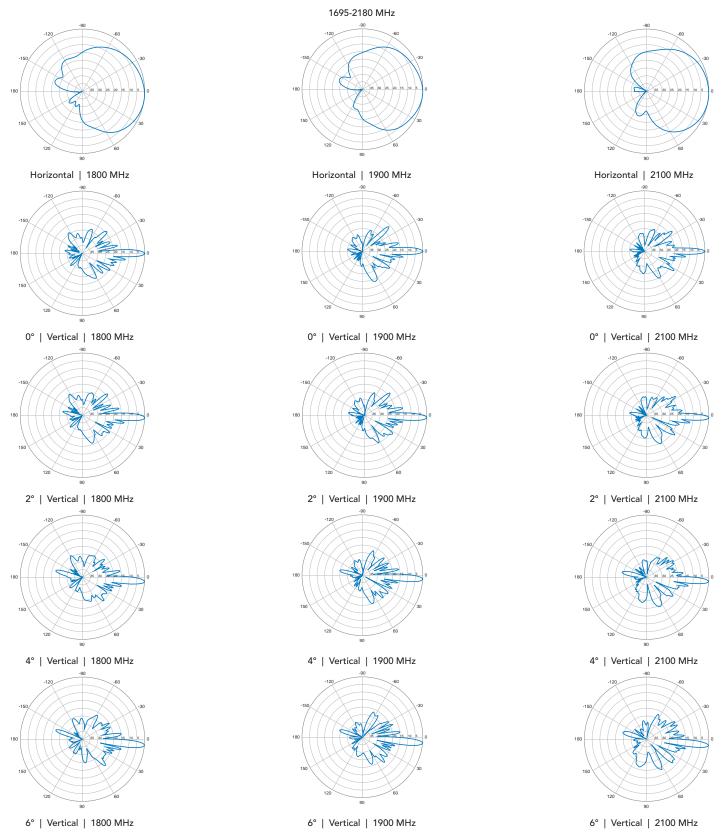




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