

QUAD858C0000x

Twin Band | Quad Port | Panel Antenna | (2x) X-Pol | 85° / 85° | 15.0 / 15.0 dBi | Variable Tilt

- Twin band, quad-port panel antenna with variable electrical tilt
- 4x4 MIMO
- Patented internal RET actuator adds no additional length to the antenna

Ordering Options	Model Number
When ordering, replace "x" in the model number with one of the options listed below.	
Manual Electrical Tilt	QUAD858C0000M
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator	QUAD858C0000G
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Actuator	QUAD858C0000L

Mounting bracket kits and other accessories are ordered separately.


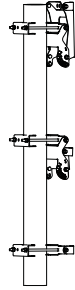
Electrical Characteristics	(2x) 696-900 MHz	
Frequency Bands	696-806 MHz	806-900 MHz
Polarization	(2x) ±45° (Quad-Pol)	
Horizontal Beamwidth	86°	80°
Vertical Beamwidth	9.2°	7.9°
Gain	14.5 dBi	15.0 dBi
Electrical Downtilt	0-10°	
Impedance	50Ω	
VSWR	≤ 1.5:1	
Upper Sidelobe Suppression	> 16 dB	> 16 dB
Front-to-Back Ratio	> 25 dB	> 25 dB
Isolation Between Ports (intra-band)	> 25 dB	
IM3 (2x20W carrier)	-150 dBc	
Input Power	(4x) 500 W	
Total Number of Connectors	Antennas has 4 connectors located at the bottom	
Connectors Per Band	696-900 MHz	(2x) 7/16-DIN Female
	696-900 MHz	(2x) 7/16-DIN Female
Diplexed	No	
Lightning Protection	Direct Ground	
Operating Temperature	-40° to +60° C (-40° to +140° F)	
Mechanical Characteristics		
Dimensions (Length x Width x Depth)	2410 x 525 x 183 mm	94.9 x 20.7 x 7.2 in
Depth with Z-Brackets	230 mm	9.0 in
Weight without Mounting Brackets: MET	31.0 kg	68.3 lbs
Weight without Mounting Brackets: RET	31.3 kg	69.0 lbs
Survival Wind Speed	> 201 km/hr	> 125 mph
Wind Area	Front	1.27 m ² / 13.6 ft ²
	Side	0.44 m ² / 4.8 ft ²
Wind Loads (160 km/hr or 100 mph)	Front	1697 N / 381 lbf
	Side	539 N / 121 lbf



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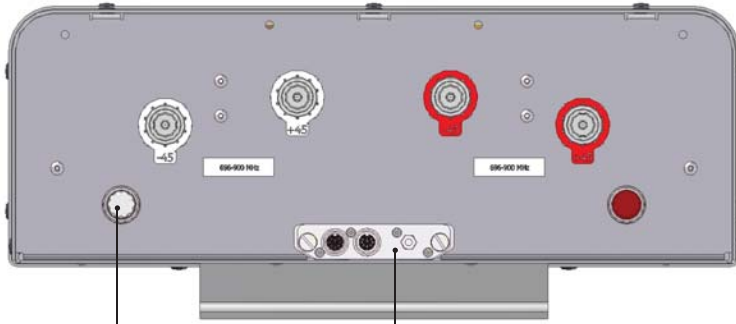
Electrical Downtilt Control				
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The 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 actuators when ordering this antenna.			
	Multi-Device Control Unit (MDCU)	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 RETs 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 locked. Do not cut them from the antenna.		
		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 separately unless otherwise indicated. Select from the options listed below.				
3-Point Mounting and Downtilt Bracket Kit	36210008		40-115 mm 1.6-4.5 in	6.9 kg 15.2 lbs
Configuration Options				
This antenna model cannot be used with Amphenol's UNICELL 3-sector antenna enclosures.				

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Bottom View of Antenna



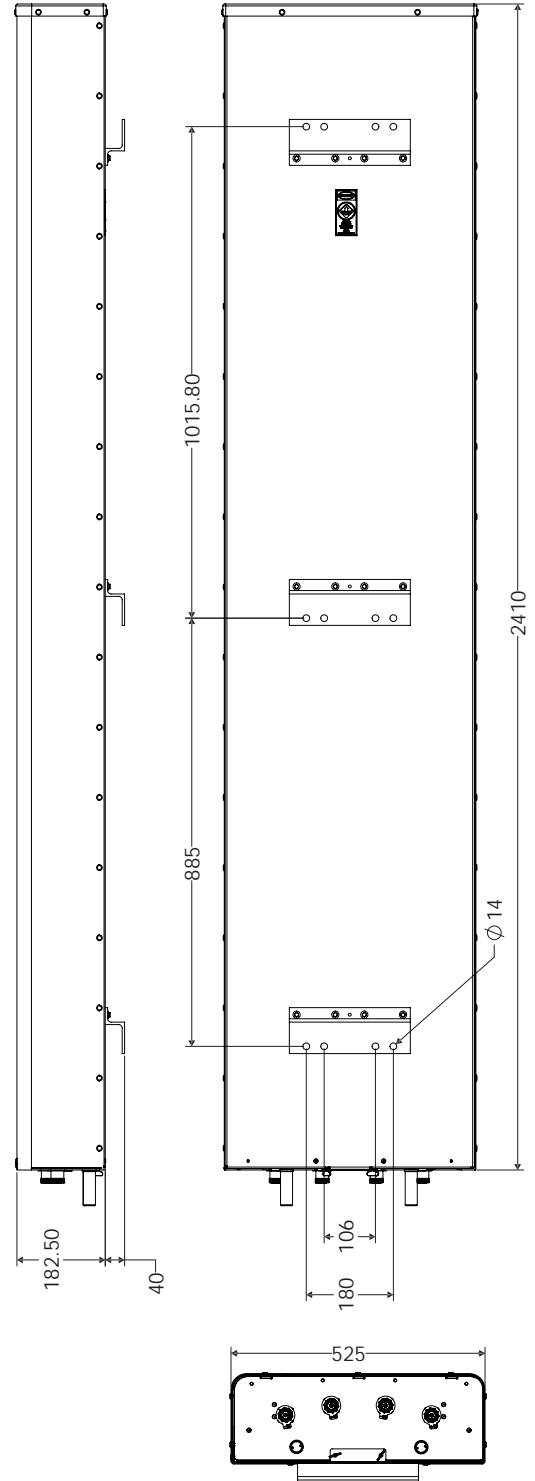
Location of the MDCU or MDDU for RET Control (MDCU shown)

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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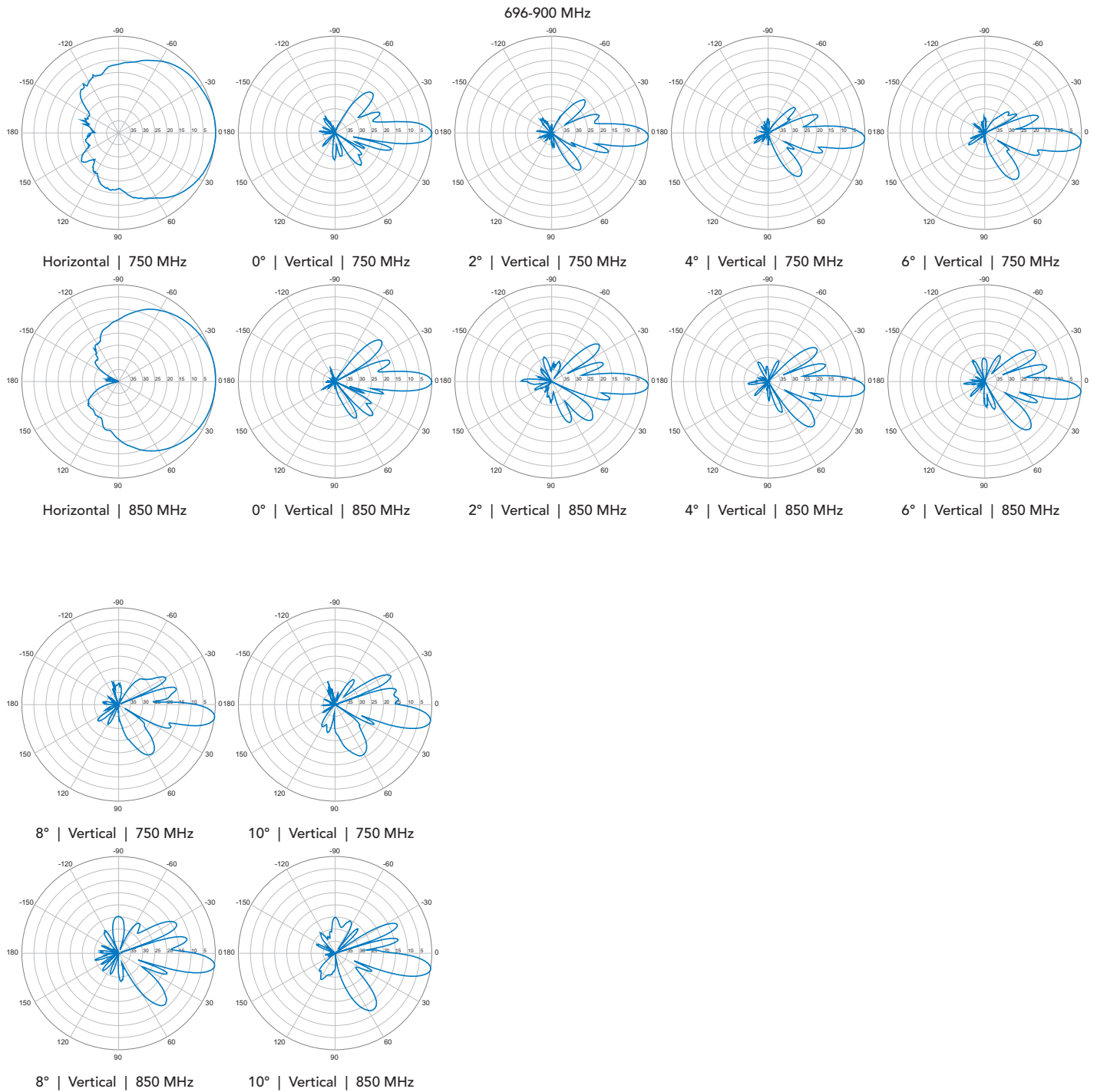
Dimensions (mm)



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