

Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 45° / 45° / 45° / 45° | 16.2 / 16.2 / 18.3 / 18.3 dBi | Variable Tilt

- Twin dual band, octo-port panel antenna with variable electrical tilt
- Ultra-wideband frequency
- 4x4 MIMO low band & high band compatible
- 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	TWIN456CU000M			
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Module	TWIN456CU000G			
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Module	TWIN456CU000L			

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

Electrical Characteris	tics	(2x) 696-	960 MHz	(2x) 1695-2400 MHz			
Frequency Bands (MH	z)	696-806	806-960	0 1695-1850 1850-1990 2100-2180 2		2200-2400	
Polarization		(2x) ±45°		(2x) ±45°			
Horizontal Beamwidth		45°	40°	48°	45°	40°	40°
Vertical Beamwidth		15.6°	13.7°	6.4°	6.0°	5.3°	5.0°
Gain		15.3 dBi	16.2 dBi	17.4 dBi	18.0 dBi	18.3 dBi	18.3 dBi
Electrical Downtilt		0-12°		0-10°			
Impedance		50Ω		50Ω			
VSWR		< 1.5:1		< 1.5:1			
Upper Sidelobe Suppression		> 17 dB Typical		> 17 dB Typical			
Front-to-Back Ratio		> 27 dB		> 28 dB			
In-Band Isolation		> 25 dB		> 25 dB			
Isolation Between Ports		> 30 dB		> 30 dB			
IM3 (2x20W carrier)		< -153 dBc		< -153 dBc			
Input Power		(4x) 500 W		(4x) 250 W			
Total Number of Connectors		Antenna has 8 connectors located at the bottom					
	696-960 MHz (2x) 7/16-DIN Female						
Connectors Per Band	696-960 MHz	(2x) 7/16-DIN Female					
	1695-2400 MHz	(2x) 7/16-DIN Female					
	1695-2400 MHz	(2x) 7/16-DIN Female					
Diplexed		No					
Lightning Protection		Direct Ground					
Operating Temperatur	re	-40° to +60° C (-40° to +140° F)					

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Mechanical Characteristics					
Dimensions (Length x Width x Depth)		1782 x 809 x 188	mm	70.1 x 31.9 x 7.4	in
Weight without Mounting Brackets: MET		48.1	kg	106	lbs
Weight without Mounting Brackets: RET		48.4	kg	106.7	lbs
Survival Wind Speed		241	km/hr	150	mph
Wind Area	Front	1.4	m²	15.5	ft²
	Side	0.3	m²	3.6	ft²
Wind Loads (160 km/hr or 100 mph)	Front	1931	N	434	lbf
	Side	409	N	92	lbf



696-960 / 696-960 / 1695-2400 / 1695-2400 MHz

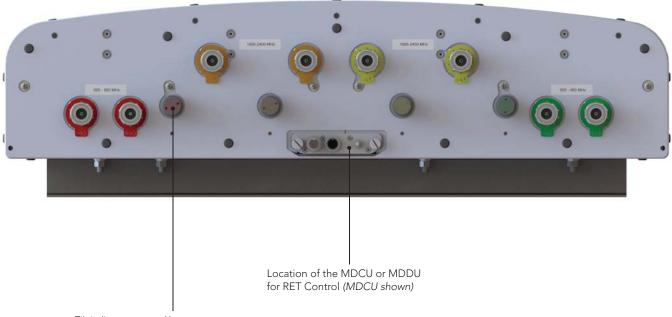
TWIN456CU000x

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Electrical Downtilt Control						
Electrical downtilt for each band can be con	trolled separately. Tilt indicator(s) ar	e covered by removable t	ransparent 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 counterclockwise. 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 (not 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 a	actuators when ordering th	nis antenna.			
	Multi-Device Control Unit (MCDU	J) downtilt (RET) in Am	The MDCU is an electronic module that allows the remote control of the electrical downtilt (RET) in Amphenol antennas with factory embedded motors. The MDC is factory installed. Refer to ordering options.			
	Multi-Device Dual Unit (MDDU) in antennas with fact		wo separate RET Controllers to independently drive the RETS tory installed motors (for antenna sharing). The MDDU is efer to ordering options.			
Important Installation Instructions	locked. Do not cut them from th	to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and 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 separ	ately unless otherwise indicated. Sel	ect from the options listed	d below.			
3-Point Mounting Bracket Kit	MKS09P04		50-115 mm 2.0-4.5 in	14.5 kg 32 lbs		
3-Point Mounting & Downtilt Bracket Kit	MKS09T04		50-115 mm 2.0-4.5 in	9.2 kg 20.3 lbs		



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Tilt indicators covered by transparent caps.

Manual adjustment is accessed by removing the caps.

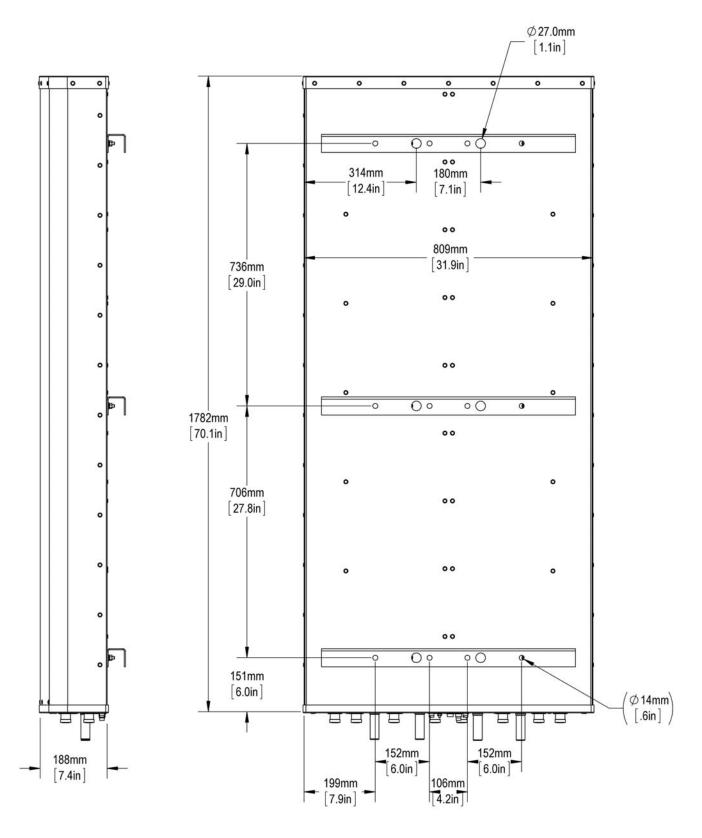
Knob colors are the same as the connectors.



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.

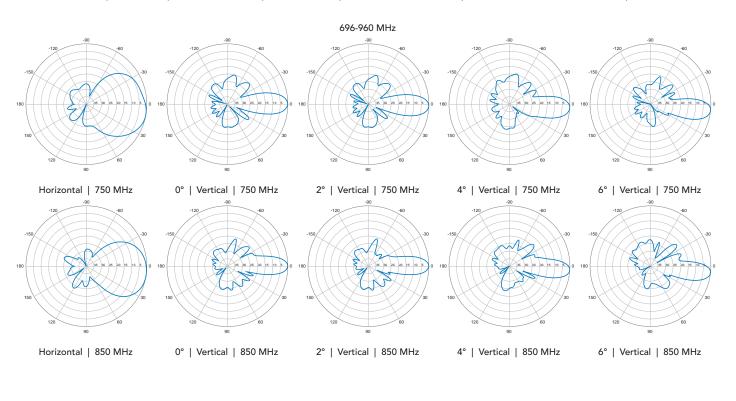


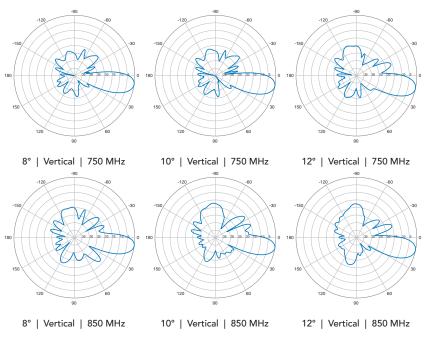
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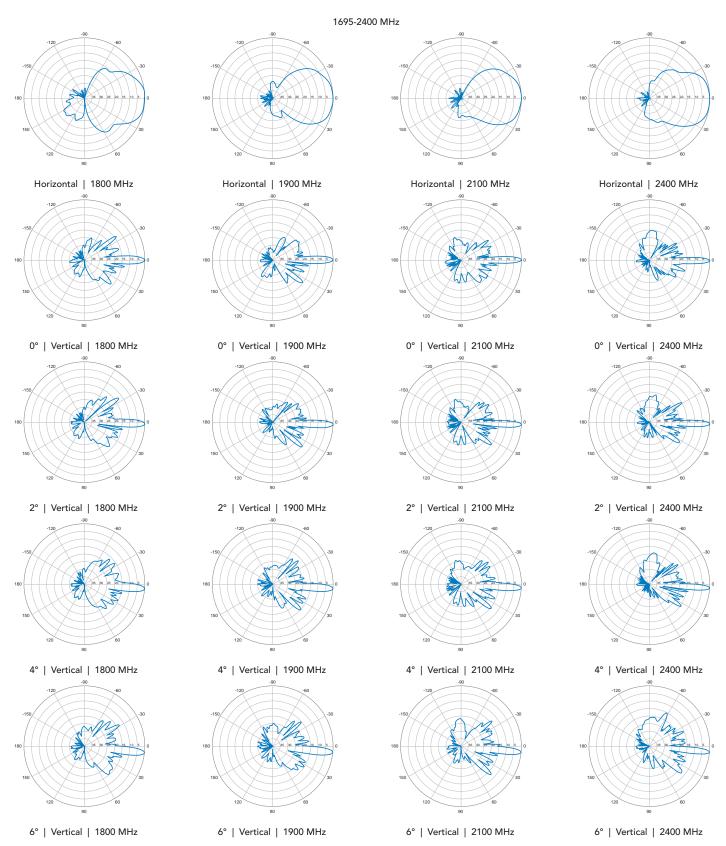
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