

#### TWIN454CU000x

#### Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 45° / 45° / 45° / 45° | 15.1 / 17.8 / 17.8 dBi | Variable Tilt

- Twin dual band, oct-port panel antenna with variable electrical tilt
- Ultra-wideband frequency
- 4x4 MIMO 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	TWIN454CU000M					
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator	TWIN454CU000 <b>G</b>					
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Actuator	TWIN454CU000L					

Mounting bracket kits	and other	accessories	are ordered se	eparately. Se	e options on t	he following p	page(s).				
Electrical Characteris	(2x) 696-	960 MHz	(2x) 1695-2400 MHz								
Frequency Bands (MF	equency Bands (MHz)				1695-1850	1850-1990	2100-2180	2200-2400			
Polarization			(2x)	±45°	(2x) ±45°						
Horizontal Beamwidth	า		48° 41°		50°	45°	43°	41°			
Vertical Beamwidth			22.0°	18.2°	9.0° 8.5°		7.8°	6.9°			
Gain			13.8 dBi	15.1 dBi	16.5 dBi	17.0 dBi	17.5 dBi	17.8 dBi			
Electrical Downtilt			0-1	14°	0-10°						
Impedance			50	Ω	50Ω						
VSWR			< 1	.5:1	< 1.5:1						
Upper Sidelobe Suppression			> 18 dE	3 Typical	> 15 dB Typical						
Front-to-Back Ratio		> 24 dB		> 27 dB							
In-Band Isolation			> 25	5 dB	> 28 dB						
Isolation Between Por	rts		> 30	0 dB	> 30 dB						
IM3 (2x20W carrier)			< -15	3 dBc	< -153 dBc						
Input Power			(2x) 5	500 W	(4x) 250 W						
Total Number of Connectors			Antenna has 8 connectors located at the bottom								
Connectors Per Band	696-960 N	696-960 MHz		(2x) 7/16-DIN Female							
	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					N	lo					
Lightning Protection			Direct Ground								
Operating Temperature			-40° to +60° C (-40° to +140° F)								
Mechanical Characte	ristics										
Dimensions (Length x Width x Depth)			1153	3 x 809 x 188	mm	45.4	1 x 31.9 x 7.4	in			
Weight without Mounting Brackets: MET				39.9	kg		88.0	lbs			
Weight without Mounting Brackets: RET				40.6	kg		89.5	lbs			
Survival Wind Speed			241	km/hr		150	mph				
Wind Area Front Side		Front		0.9	m²		10.0	ft <sup>2</sup>			
		Side		0.2	m²		2.3	ft²			
Wind Loads		Front		1251	N		281	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.

(160 km/hr or 100 mph)

Side

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

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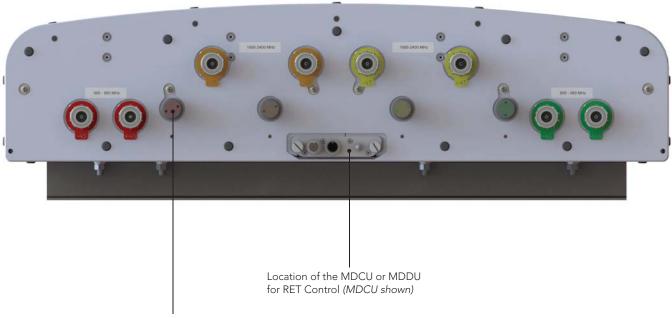
Electrical Downtilt Control								
Electrical downtilt for each band can be control	olled separately. Tilt indicator(s	) are co	vered by removable tra	insparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of 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 (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 RE	ET actua	ators when ordering thi	s 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 RETs in 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	g Options Part Number		Image	Fits Pipe Diameter		Weight		
All mounting bracket kits are ordered separate	ely unless otherwise indicated.	Select 1	from the options listed	below.				
Pole Mounting Bracket Kit Antenna cannot be mechanically downtilted.	MKS09P06			50-115 mm	2.0-4.5 in	TBD		
			NO IMAGE AVAILABLE					
			SOON					

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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.

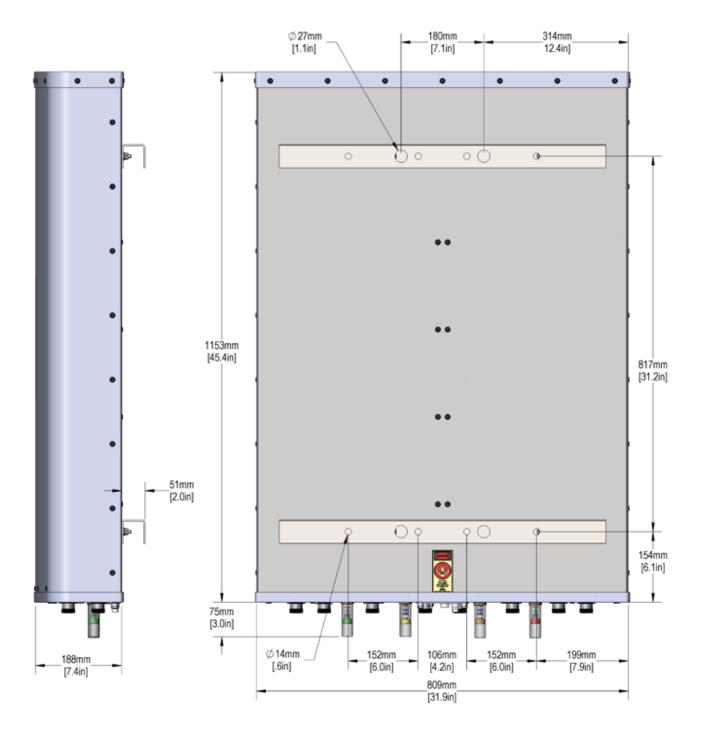


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