

### TWIN458CU000x

#### Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 45° / 45° / 45° / 45° | 17.8 / 17.8 / 18.3 / 18.3 dBi | Variable Tilt

- Tri band, oct-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	TWIN458CU000M				
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Module	TWIN458CU000 <b>G</b>				
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Module	TWIN458CU000L				

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

Electrical Characteris	stics		(2x) 696-	960 MHz	(2x) 1695-2400 MHz					
Frequency Bands (MF	łz)		696-806	806-960	1695-1850	1850-1990 2100-2180 2200-24				
Polarization			(2x) :	±45°		(2x)	±45°			
Horizontal Beamwidth	h		48°	41°	52°	49°	49° 43° 44°			
Vertical Beamwidth	/ertical Beamwidth			8.9°	6.4°	6.0°	5.4°	5.0°		
Gain	Gain			17.8 dBi	17.4 dBi	18.0 dBi	18.3 dBi	18.3 dBi		
Electrical Downtilt	lectrical Downtilt			10°	0-10°					
Impedance			50Ω 50			ΩΩ				
VSWR			< 1.5:1		.5:1					
Upper Sidelobe Supp	ression		> 16 dB Typical > 19 dB Typical		3 Typical					
Front-to-Back Ratio		> 26 dB		> 30 dB						
In-Band Isolation			> 25 dB		> 25 dB					
Isolation Between Por	Isolation Between Ports		> 30 dB		> 30 dB					
IM3 (2x20W carrier)			< -153 dBc		< -153 dBc					
Input Power	Input Power			(4x) 500 W (4x) 250 W						
Total Number of Conn	Total Number of Connectors			Antenna has 8 connectors located at the bottom						
Connectors Per Band	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 Temperatu	emperature -40° to +60° C (-40° to +140° F)									
Mechanical Characte	ristics									
Dimensions (Length x Width x Depth)		2334	x 809 x 188	mm	91.9	9 x 31.9 x 7.4	in			
Weight without Mounting Brackets: MET			58.5	kg		129	lbs			
Weight without Moun	Weight without Mounting Brackets: RET			58.8	kg 129.7 lbs			lbs		
Survival Wind Speed 241 km/hr				150	mph					
Wind Area		Front		1.9	m²		20.4	ft²		
VVIII Alea		Side		0.4	m²		4.7	ft²		
Wind Loads		Front		2496	N		561	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.

560 N

126 lbf

(160 km/hr or 100 mph)

Side

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

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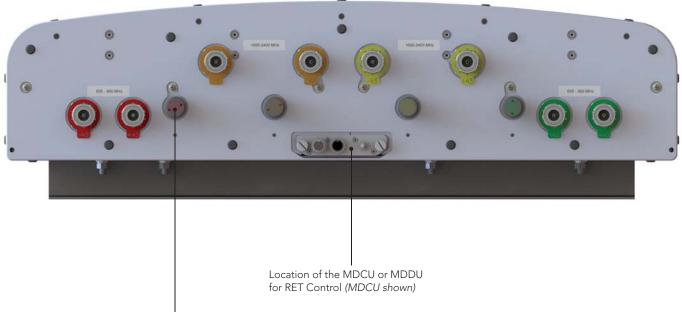
Electrical downtilt for each band can be con	trolled separately. Tilt indicator(s) a	are covered by removable	e transparent cap(s).					
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector ring color. To access the knob, remove the cap by turning it 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 (n 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 (MCD	OU) downtilt (RET) in A	The MDCU is an electronic module that allows the remote control of the electric 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 fa	The MDDU allows two separate RET Controllers to independently drive the RE 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 eng 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 separ	ately unless otherwise indicated. Se	elect from the options list	ted 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.

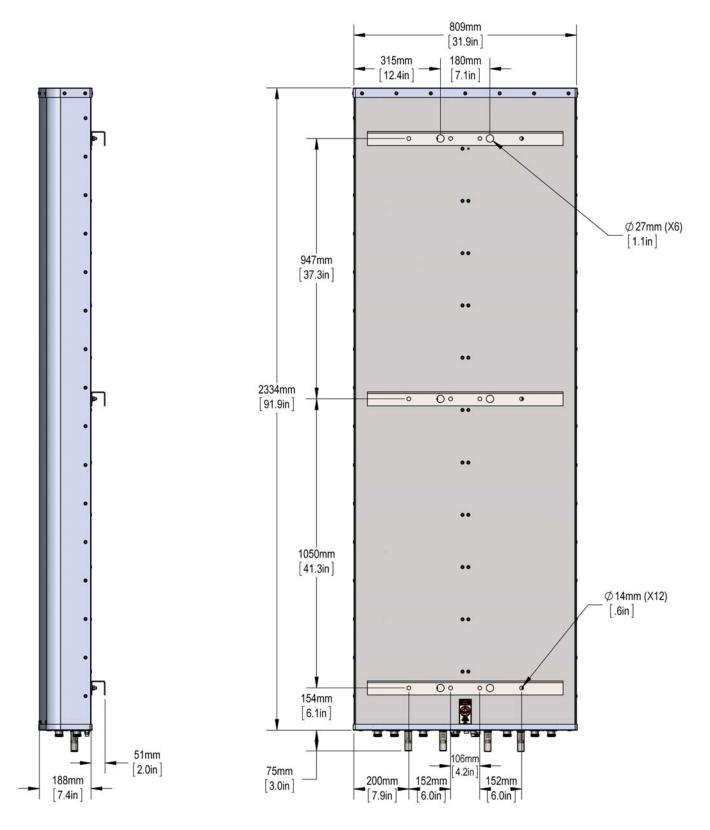


In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.



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