

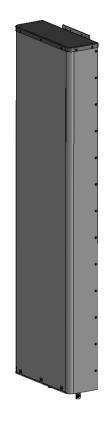
Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 65° / 65° / 65° / 65° | 15.0 / 17.5 / 17.5 dBi | Variable Tilt

- Twin dual 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	TWIN656CU000M				
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Module	TWIN656CU000G				
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Module	TWIN656CU000L				

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

Electrical Characteristics (2x) 696-960 MHz (2x) 1695-2400 MHz										
Frequency Bands (MHz)		696-806 806-960		1695-1850	1850-1990	2100-2180	2200-2400			
Polarization		(2x) ±45°		(2x) ±45°						
Horizontal Beamwidth		68°	65°	65°	63°	60°	57°			
Vertical Beamwidth		11.7°	9.7°	6.0°	5.5°	5.0°	4.8°			
Gain			14.1 dBi	15.0 dBi	16.7 dBi	16.9 dBi	17.2 dBi	17.5 dBi		
Electrical Downtilt			0-12°		0-10°					
Impedance			50Ω		50Ω					
VSWR			< 1.5:1		< 1.5:1					
Upper Sidelobe Supp	ression		> 17 dB Typical		> 18 dB Typical					
Front-to-Back Ratio			> 30 dB		> 25 dB					
In-Band Isolation			> 23 dB		> 25 dB					
Isolation Between Ports		> 30 dB		> 30 dB						
IM3 (2x20W carrier)		< -153 dBc		< -153 dBc						
Input Power		(4x) 5	00 W	(4x) 250 W						
Total Number of Conn	ectors		Antenna has 8 connectors located at the bottom							
	696-960 N	696-960 MHz		(2x) 7/16-DIN Female						
Connectors Per Band	696-960 MHz		(2x) 7/16-DIN Female							
Connectors Per Band	1695-2400 MHz		(2x) 7/16-DIN Female							
	1695-2400 MHz		(2x) 7/16-DIN Female							
Diplexed			No							
Lightning Protection			Direct Ground							
Operating Temperature			-40° to +60° C (-40° to +140° F)							
Mechanical Characte	ristics									
Dimensions (Length x Width x Depth)		1833	x 520 x 178	mm	72.2	2 x 20.5 x 7.0	in			
Weight without Mounting Brackets: MET			27.7			61	lbs			
Weight without Mounting Brackets: RET		28		kg		61.7	lbs			
Survival Wind Speed			241		km/hr		150	mph		
\A/: A		Front	0.95		m²	10.3 ft²		ft²		
Wind Area		Side		0.33	m²		3.5	ft²		
Wind Loads		Front	1279		N		288	lbf		
(160 km/hr or 100 mp	ph)	Side	399		N		90	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.

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

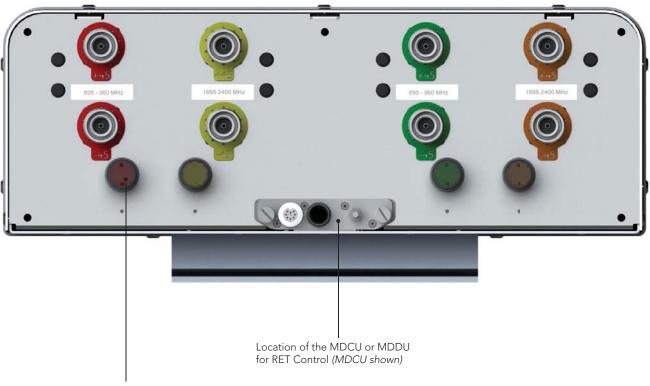
TWIN656CU000x

Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 65° / 65° / 65° / 65° | 15.0 / 17.5 / 17.5 dBi | Variable Tilt

Electrical Downtilt Control							
Electrical downtilt for each band can be con	trolled separately. Tilt indicator(s) are co	vered by removable tr	ansparent 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 R	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 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	Part Number		Image	Fits Pipe Diameter	Weight		
All mounting bracket kits are ordered separa	ately unless otherwise indicated.	Select f	from the options listed	below.			
3-Point Mounting & Downtilt Bracket Kit	36210008			40-115 mm 1.6-4.5 in	6.9 kg 15.2 lbs		



Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 65° / 65° / 65° / 65° | 15.0 / 17.5 / 17.5 dBi | Variable Tilt



Tilt indicators covered by transparent caps.

Manual adjustment is accessed by removing the caps.

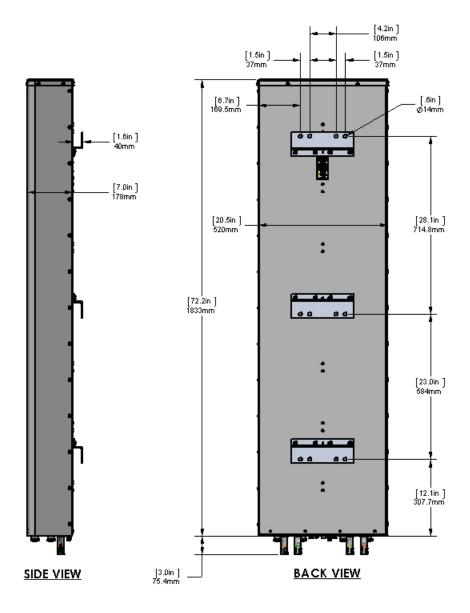
Knob colors are the same as the connectors.



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.

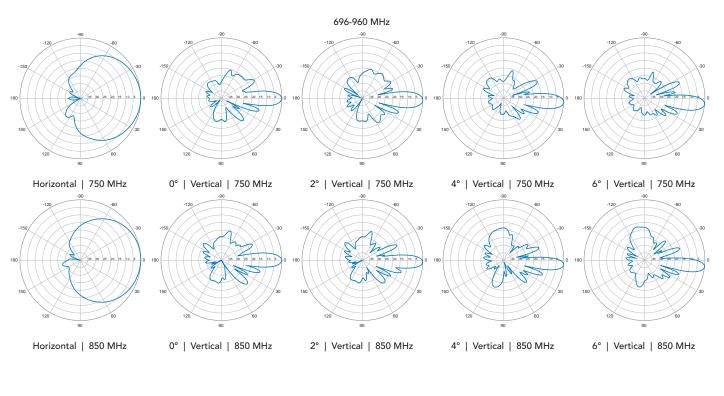


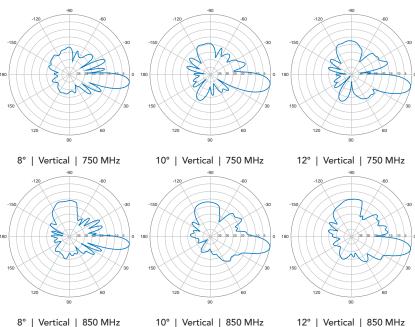
Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 65° / 65° / 65° / 65° | 15.0 / 17.5 / 17.5 dBi | Variable Tilt





Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 65° / 65° / 65° / 65° | 15.0 / 17.5 / 17.5 dBi | Variable Tilt

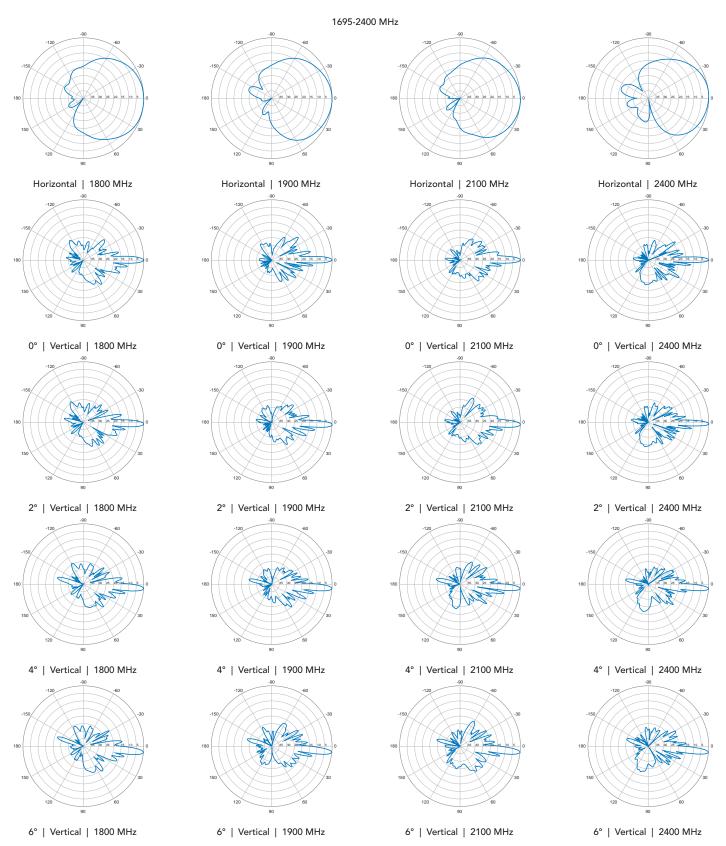




Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.



Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 65° / 65° / 65° / 65° | 15.0 / 17.5 / 17.5 dBi | Variable Tilt



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.



Twin Dual Band | Oct Port | Panel Antenna | (2x) XX-Pol | 65° / 65° / 65° / 65° | 15.0 / 17.5 / 17.5 dBi | Variable Tilt

