

OCT458KBU000x

Quad Band | Oct Port | Panel Antenna | XXXX-Pol | 45° / 45° / 45° / 45° | 16.1 / 17.5 / 18.3 / 18.3 dBi | Variable Tilt

- Quad 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	OCT458KBU000M
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Module	OCT458KBU000G
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Module	OCT458KBU000L

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

Electrical Characteristics	696-798 MHz	824-896 MHz	(2x) 1695-2400 MHz			
Frequency Bands (MHz)	696-798	824-896	1695-1850	1850-1990	2100-2180	2200-2400
Polarization	±45°	±45°	(2x) ±45°			
Horizontal Beamwidth	48°	41°	52°	49°	43°	44°
Vertical Beamwidth	10.4°	8.9°	6.4°	6.0°	5.4°	5.0°
Gain	16.1 dBi	17.5 dBi	17.4 dBi	18.0 dBi	18.3 dBi	18.3 dBi
Electrical Downtilt	0-10°	0-10°	0-10°			
Impedance	50Ω	50Ω	50Ω			
VSWR	< 1.5:1	< 1.5:1	< 1.5:1			
Upper Sidelobe Suppression (Typical)	> 16 dB	> 16 dB	> 19 dB			
Front-to-Back Ratio	> 26 dB	> 26 dB	> 30 dB			
In-Band Isolation	> 25 dB	> 25 dB	> 25 dB			
Isolation Between Ports	> 30 dB	> 30 dB	> 30 dB			
IM3 (2x20W carrier)	< -153 dBc	< -153 dBc	< -153 dBc			
Input Power	(2x) 500 W	(2x) 500 W	(4x) 250 W			
Total Number of Connectors	Antenna has 8 connectors located at the bottom					
Connectors Per Band	696-798 MHz	(2x) 7/16-DIN Female				
	824-896 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 Temperature	-40° to +60° C (-40° to +140° F)					


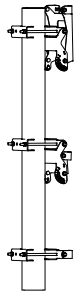
Mechanical Characteristics			
Dimensions (Length x Width x Depth)		2333 x 397 x 180 mm	91.7 x 15.6 x 7.4 in
Weight without Mounting Brackets: MET		31.3 kg	69.0 lbs
Weight without Mounting Brackets: RET		31.6 kg	69.7 lbs
Survival Wind Speed		241 km/hr	150 mph
Wind Loads (160 km/hr or 100 mph)	Front	1209 N	272 lbf
	Side	560 N	126 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 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 & 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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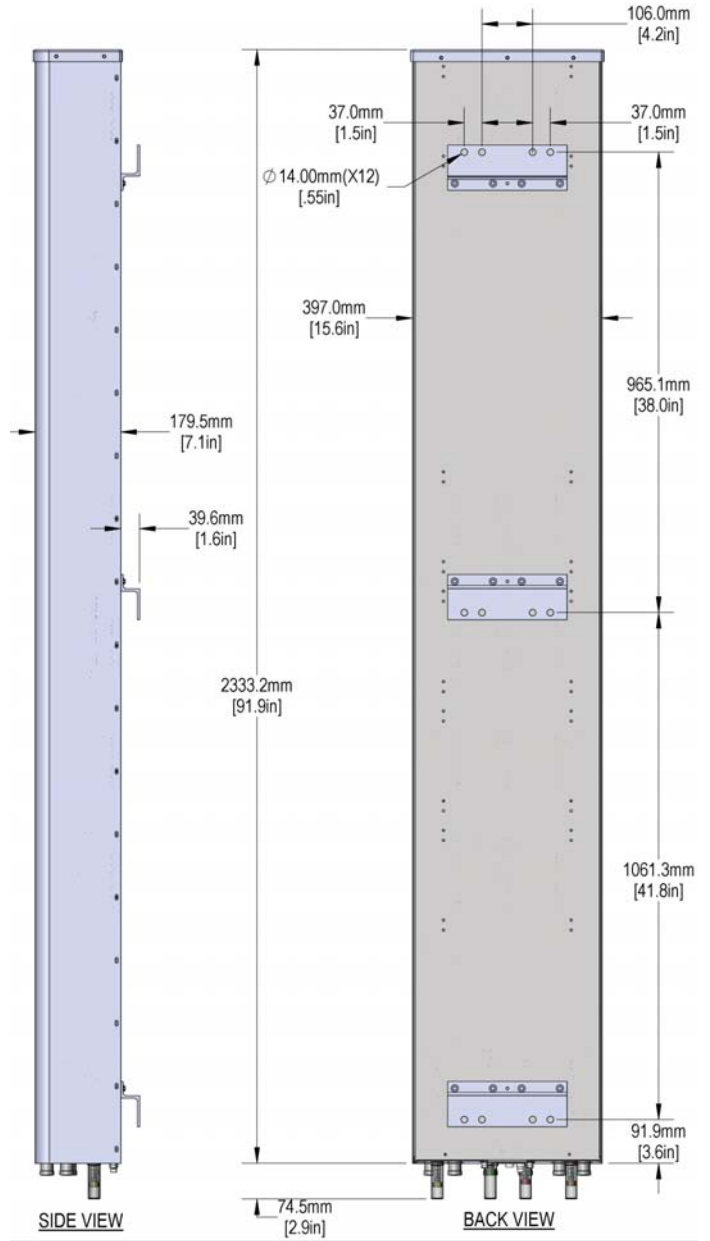
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Bottom View of Antenna



Dimensions



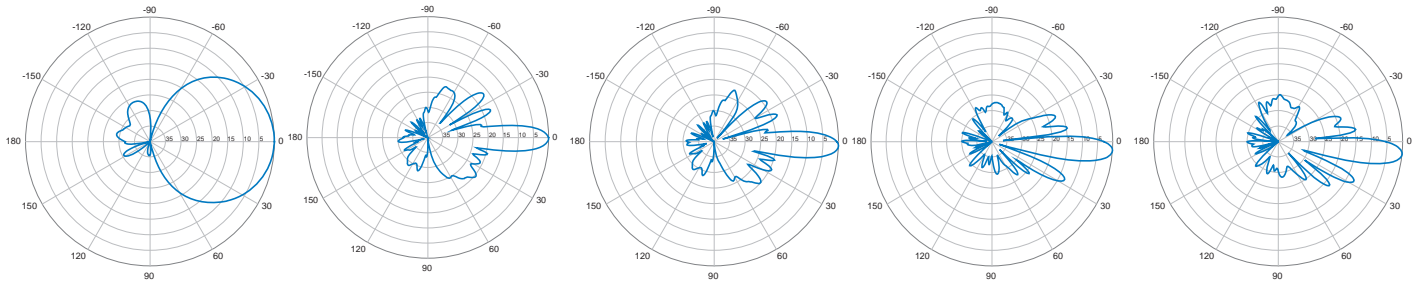
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696-798 MHz



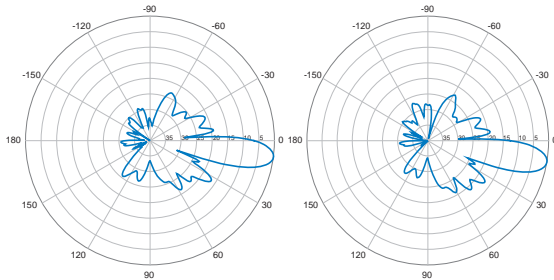
Horizontal | 750 MHz

0° | Vertical | 750 MHz

2° | Vertical | 750 MHz

4° | Vertical | 750 MHz

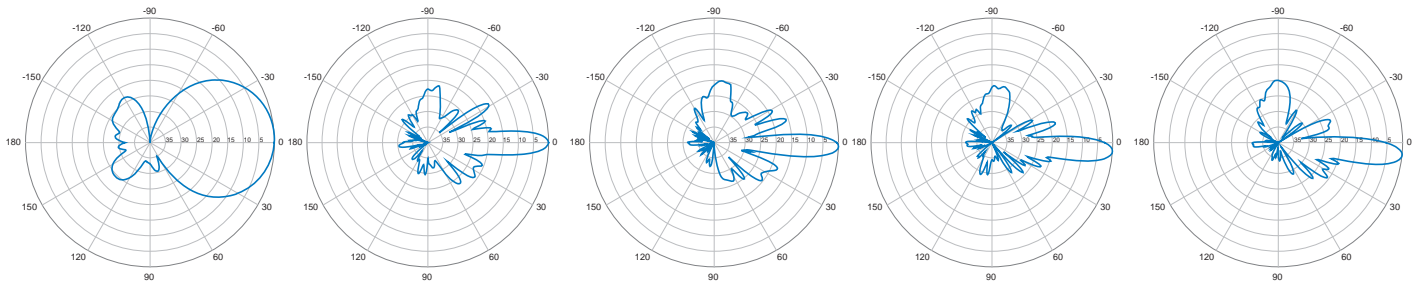
6° | Vertical | 750 MHz



8° | Vertical | 750 MHz

10° | Vertical | 750 MHz

824-896 MHz



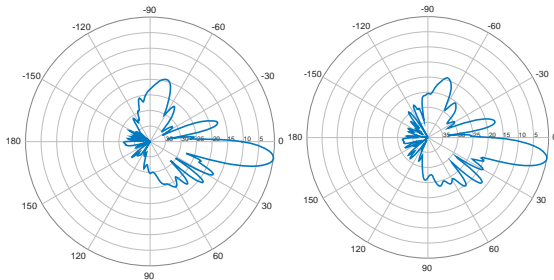
Horizontal | 850 MHz

0° | Vertical | 850 MHz

2° | Vertical | 850 MHz

4° | Vertical | 850 MHz

6° | Vertical | 850 MHz



8° | Vertical | 850 MHz

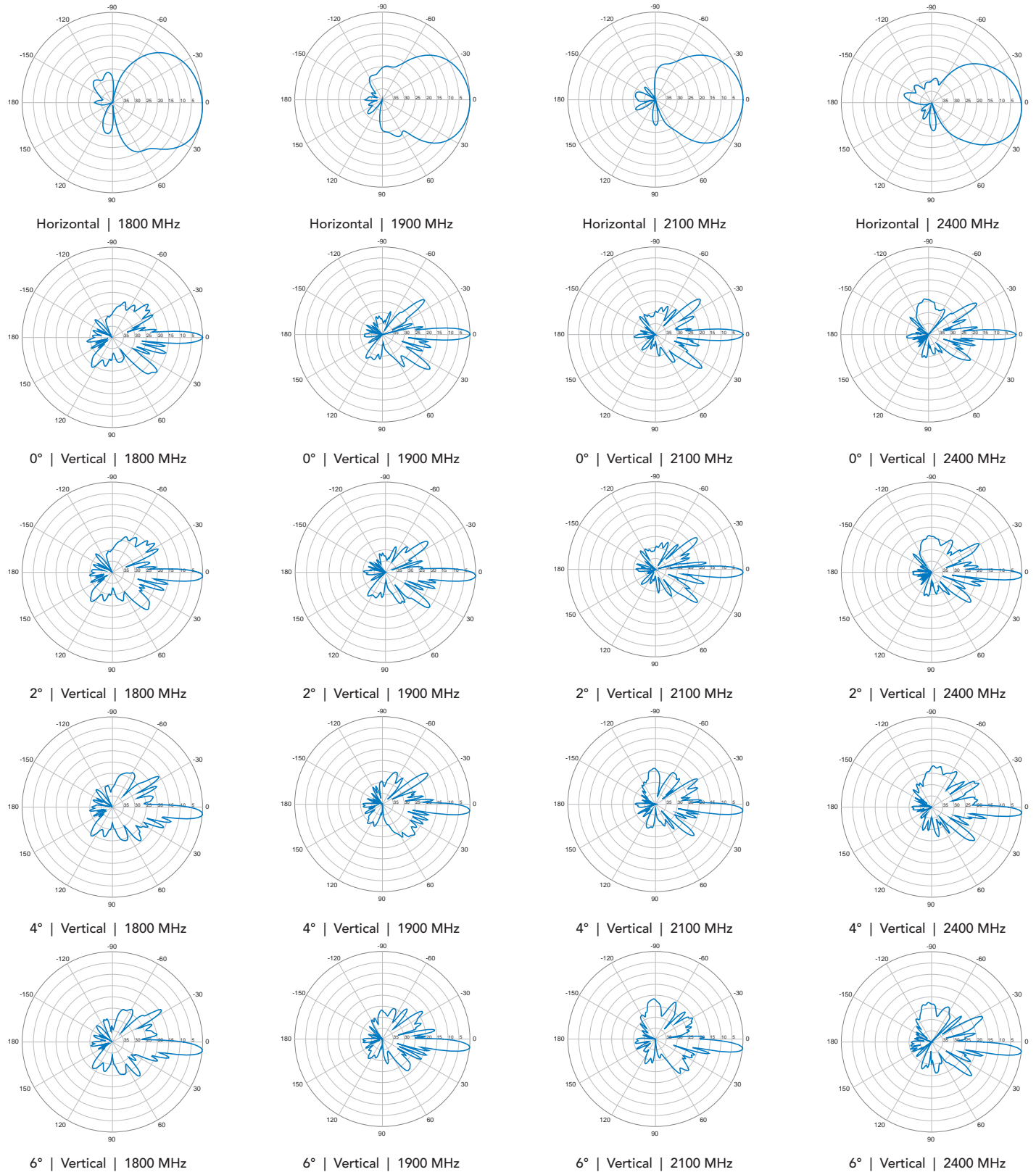
10° | Vertical | 850 MHz

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1695-2400 MHz

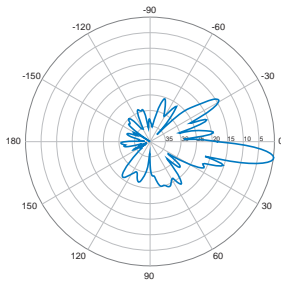


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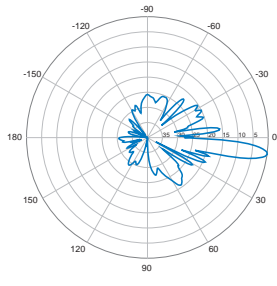
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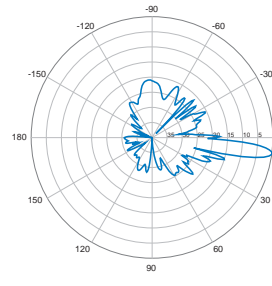
1695-2400 MHz



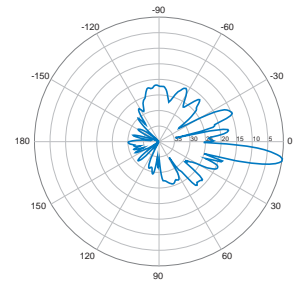
8° | Vertical | 1800 MHz



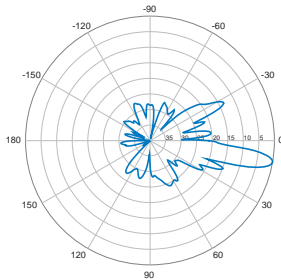
8° | Vertical | 1900 MHz



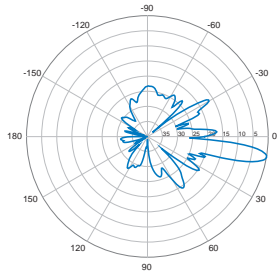
8° | Vertical | 2100 MHz



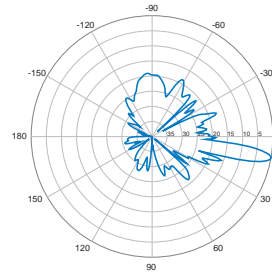
8° | Vertical | 2400 MHz



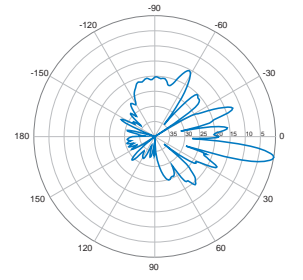
10° | Vertical | 1800 MHz



10° | Vertical | 1900 MHz



10° | Vertical | 2100 MHz



10° | Vertical | 2400 MHz

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