CUX063X25x00

Dual Band | Panel Antenna | XX-Pol | 70° / 65° | 15.9 / 18.7 dBi | Variable Tilt

- Dual band, XX-Pol, variable tilt, panel antenna
- Part of Amphenol's UNIVERSAL series of antennas featuring consistent form factors for future-proofing
- Patented internal RET actuator adds no additional length to the antenna
- Features an adjustable mounting bracket channel for custom mounting in any situation

Ordering Options	Model Number
When ordering, replace "x" in the model number with one of the options listed below.	
Manual Electrical Tilt	CUX063X25M00
Remote Electrical Tilt AISG v1.1	CUX063X25R00
Remote Electrical Tilt AISG v2.0 / 3GPP	CUX063X25G00
Mounting bracket kits and other accessories are ordered separately.	

Electrical Characteristics	696-960 MHz		1695-2400 MHz			
Frequency Bands (MHz)	696-806	806-960	1695-1880	1850-1990	1900-2170	2200-2400
Polarization	±45°		±45°			
Horizontal Beamwidth	70°	70°	65°	63°	62°	59°
Vertical Beamwidth	9.3°	8.0°	6.8°	6.2°	6.0°	4.9°
Gain	15.1 dBi	15.9 dBi	16.9 dBi	17.4 dBi	17.7 dBi	18.7 dBi
Electrical Downtilt	0-10°		0-10°			
Impedance	50Ω		50Ω			
VSWR	< 1.5:1		< 1.5:1			
Upper Sidelobe Suppression	< -18 dB Typical		< -18 dB Typical			
Front-to-Back Ratio	> 30 dB		> 30 dB			
In-Band Isolation	> 23 dB		> 25 dB			
Isolation Between Ports	> 30 dB		> 30 dB			
IM3 (2x20W carrier)	< -153 dBc		< -153 dBc			
Input Power	500 W		250 W			
Total Number of Connectors	Antennas has 4 connectors located at the bottom					
Connectors Per Band, Type, Location — 696-960 MHz	2 Connectors / 7/16-DIN Female / Bottom					
Connectors Per Band, Type, Location — 1695-2400 MHz	2 Connectors / 7/16-DIN Female / Bottom					
Diplexed	No					
Lightning Protection	Direct Ground					
Operating Temperature	-40° to +60° C (-40° to +140° F)					

Mechanical Characteristics			
Dimensions (Length x Width x Depth)	2508 x 305 x 180 mm	98.7 x 12.0 x 7.1 in
Weight without Mounting Brackets: MET	17.2 kg	38.0 lbs
Weight without Mounting Brackets: RET	17.6 kg	38.7 lbs
Survival Wind Speed	241 km/hr	150 mph
Wind Loads (160 km/hr or 100 mph) — Front	930 N	209 lbf
Wind Loads (160 km/hr or 100 mph) — Side	550 N	124 lbf

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal 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 product may be made without notice.

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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 a module (MDCU) totally inserted at the bottom of the antenna. One single module controls individually the tilt of each band (no need of daisy chain cables between the bands). This module does not add any additional length at the bottom of the antenna. For RET control, the transparent cap must be in place and locked. The tilt angle indicator always remains visible and the antenna still has manual tilt control (manual override).		
RET Module	The RET module is factory installed and does not need to be ordered separately.		
	Part Number for AISG v1.1 protocol:	MDCU-A0000	One unit installed in CUX063X25R00
	Part Number for 3GPP/AISG v2.0 protocol:	MDCU-G0000	One unit installed in CUX063X25G00
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 Bracket Kit	MKS09P02		50-115 mm 2.0-4.5 in	4.1 kg 9 lbs
3-Point Mounting & Downtilt Bracket Kit	MKS09T02		50-115 mm 2.0-4.5 in	6.4 kg 14 lbs

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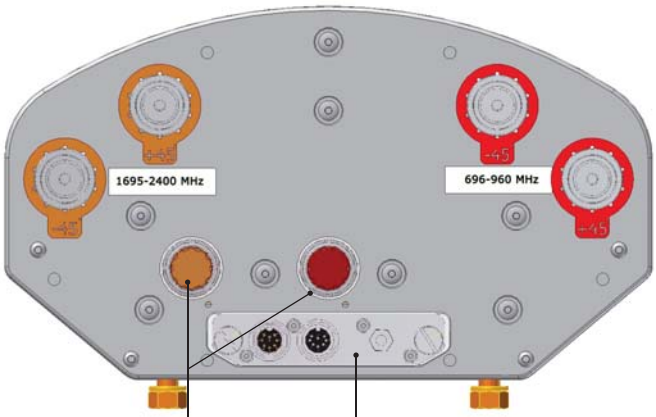
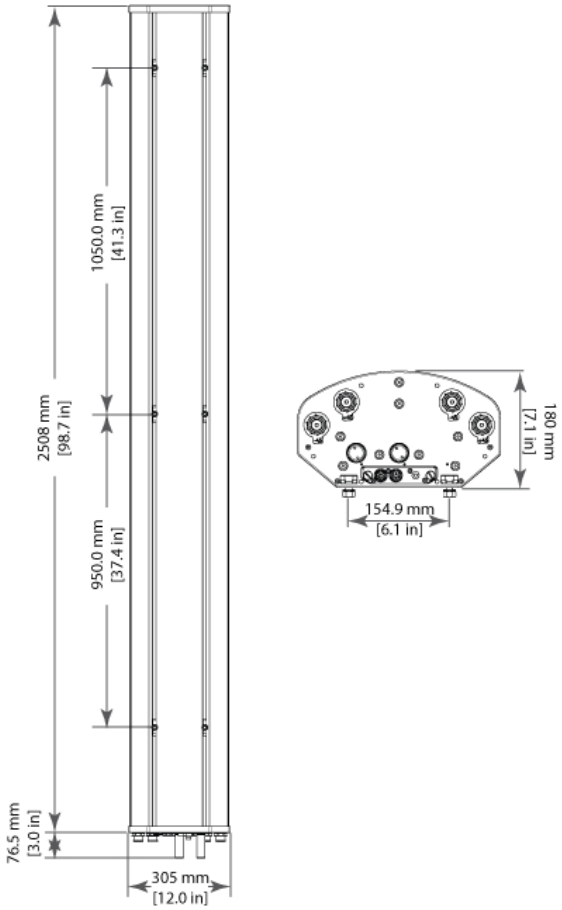
Bottom View of Antenna



Location of the MDCU
for RET Control

Tilt indicators covered by transparent caps.
Manual adjustment is accessed by removing the caps.
Knob colors are the same as the connectors.

Dimensions



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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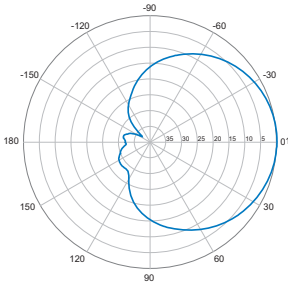
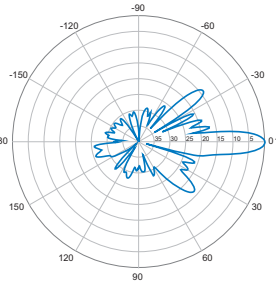
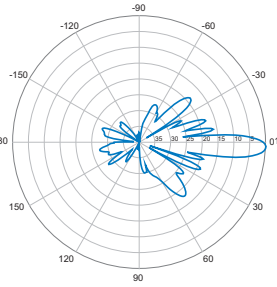
696-960 MHz



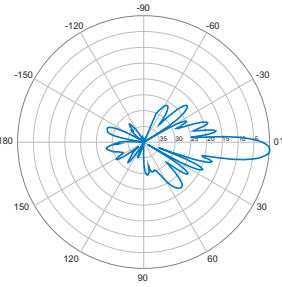
Horizontal | 750 MHz



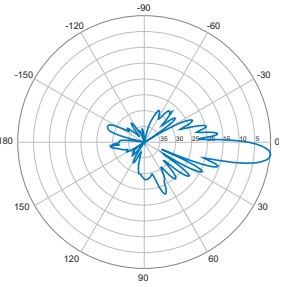
0° | Vertical | 750 MHz



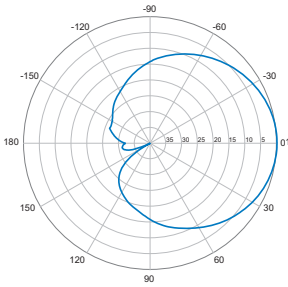
2° | Vertical | 750 MHz



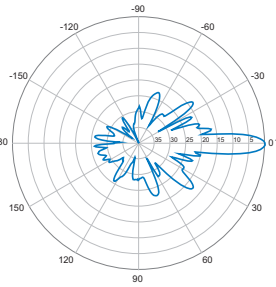
4° | Vertical | 750 MHz



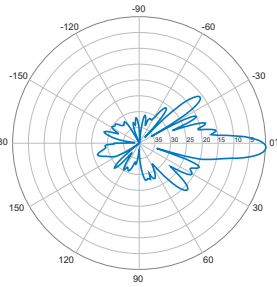
6° | Vertical | 750 MHz



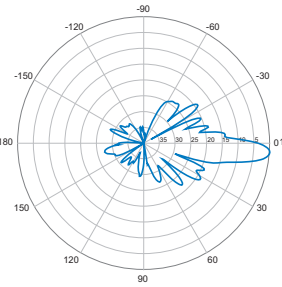
Horizontal | 850 MHz



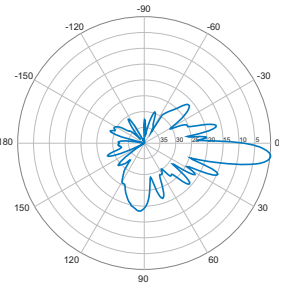
0° | Vertical | 850 MHz



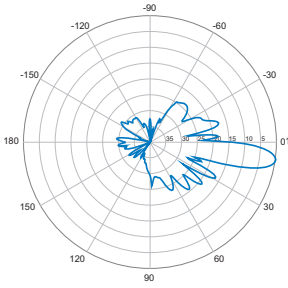
2° | Vertical | 850 MHz



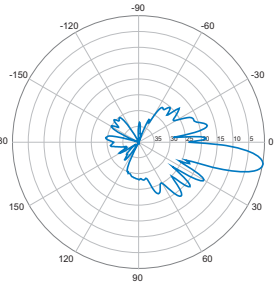
4° | Vertical | 850 MHz



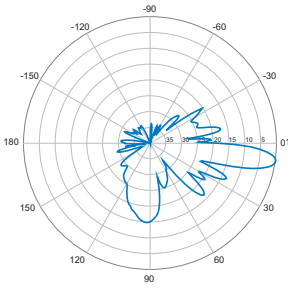
6° | Vertical | 850 MHz



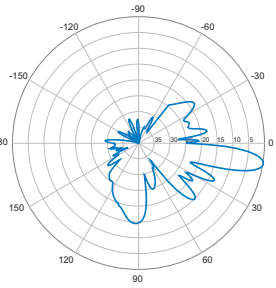
8° | Vertical | 750 MHz



10° | Vertical | 750 MHz



8° | Vertical | 850 MHz



10° | Vertical | 850 MHz

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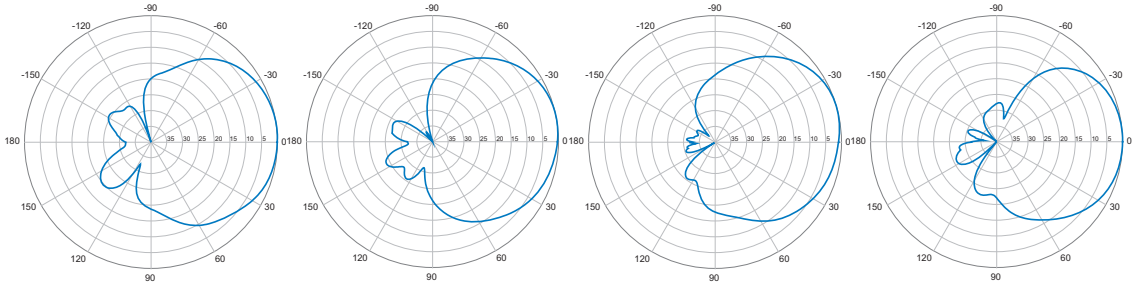
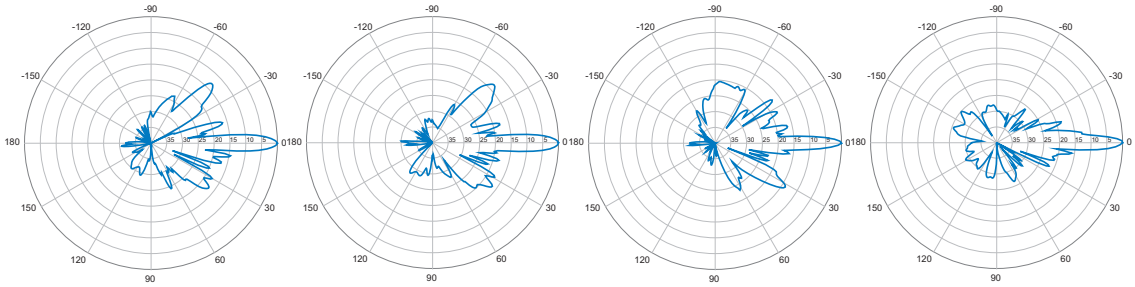
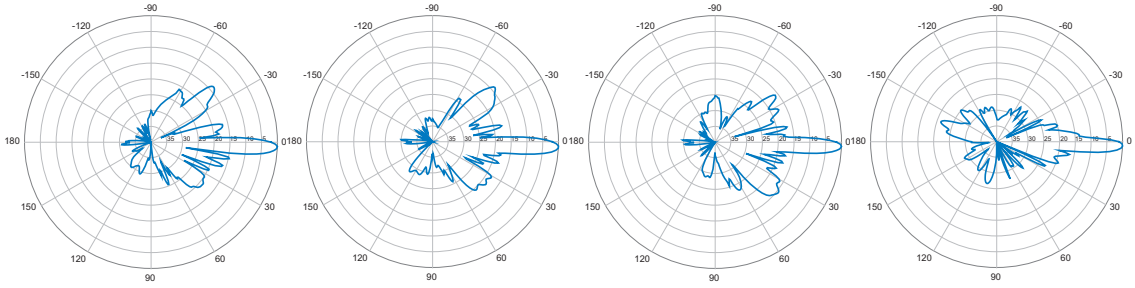
1695-2400 MHz



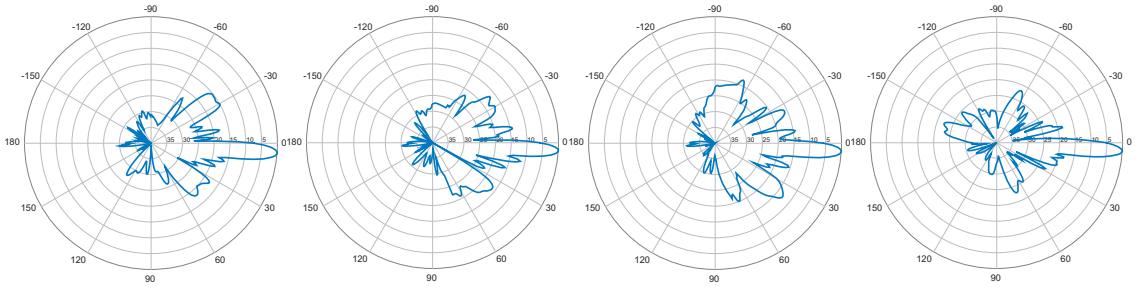
Horizontal | 1800 MHz | Horizontal | 1900 MHz | Horizontal | 2100 MHz | Horizontal | 2400 MHz



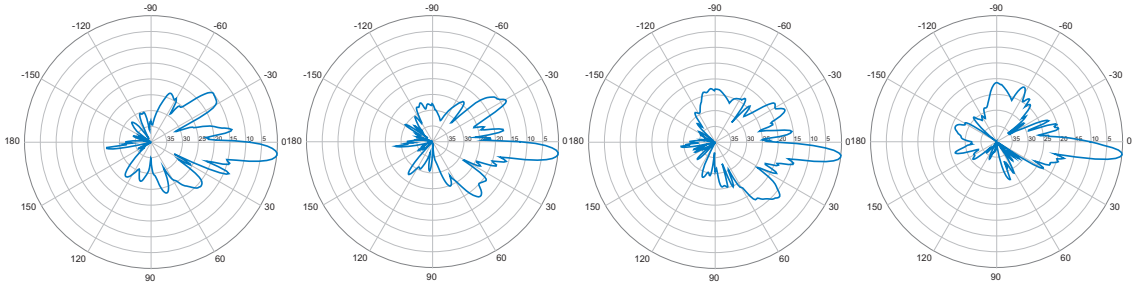
0° | Vertical | 1800 MHz | 0° | Vertical | 1900 MHz | 0° | Vertical | 2100 MHz | 0° | Vertical | 2400 MHz



2° | Vertical | 1800 MHz | 2° | Vertical | 1900 MHz | 2° | Vertical | 2100 MHz | 2° | Vertical | 2400 MHz



4° | Vertical | 1800 MHz | 4° | Vertical | 1900 MHz | 4° | Vertical | 2100 MHz | 4° | Vertical | 2400 MHz



6° | Vertical | 1800 MHz | 6° | Vertical | 1900 MHz | 6° | Vertical | 2100 MHz | 6° | Vertical | 2400 MHz

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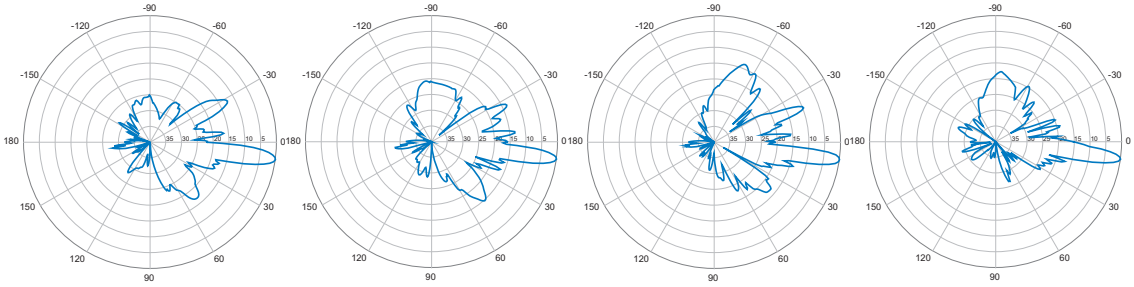
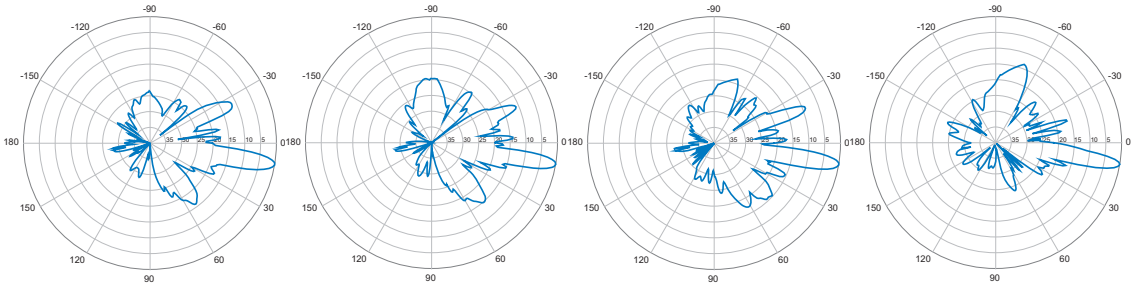


8° | Vertical | 1800 MHz | 8° | Vertical | 1900 MHz | 8° | Vertical | 2100 MHz | 8° | Vertical | 2400 MHz



10° | Vertical | 1800 MHz | 10° | Vertical | 1900 MHz | 10° | Vertical | 2100 MHz | 10° | Vertical | 2400 MHz