

## CX085X24x00

Single Band | Panel Antenna | X-Pol | 85° | 15.8 dBi | Variable Tilt

- Single band, X-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	CX085X24 <b>M</b> 00
Remote Electrical Tilt AISG v2.0 / 3GPP	CX085X24 <b>G</b> 00

Mounting bracket kits and other accessories are ordered separately.

Electrical Characteristics	696-960 MHz	
Frequency Bands	696-806 MHz	806-960 MHz
Polarization	±45°	
Horizontal Beamwidth	80°	82°
Vertical Beamwidth	7.4°	6.9°
Gain	15.3 dBi	15.8 dBi
Electrical Downtilt	0-10°	
Impedance	50Ω	
VSWR	< 1.5:1	
Upper Sidelobe Suppression	> 18 dB Typical	
Front-to-Back Ratio	> 30 dB	
In-Band Isolation	> 23 dB	
Isolation Between Ports	> 30 dB	
IM3 (2x20W carrier)	< -153 dBc	
Input Power	(2x) 500 W	
Total Number of Connectors	Antenna has 2 connectors located at the bottom	
Connectors Type	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)		2421 x 305 x 180 mm	95.3 x 12.0 x 7.1 in
Weight	Antenna Only	15.6 kg	34.5 lbs
	Antenna with Mounting Bracket Kit <b>MKS09P02</b>	19.8 kg	43.6 lbs
	Antenna with Mounting Bracket Kit <b>MKS09T02</b>	22.0 kg	48.6 lbs
Survival Wind Speed		241 km/hr	150 mph
Wind Loads (160 km/hr or 100 mph)	Front	898 N	202 lbf
	Side	531 N	120 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.

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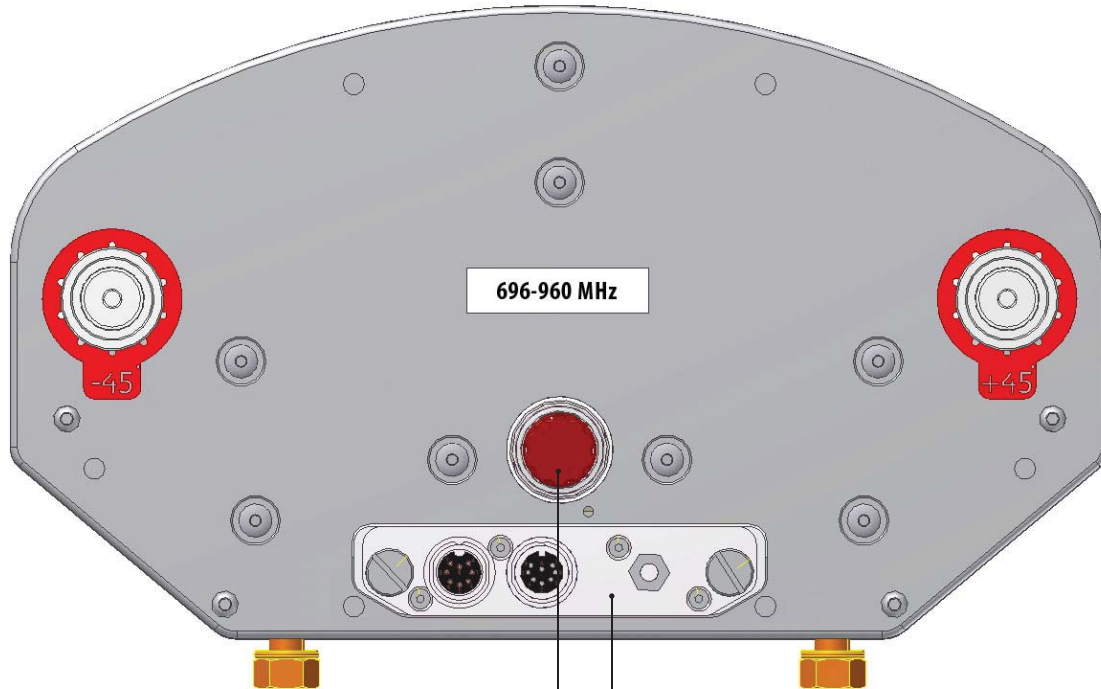
Electrical Downtilt Control				
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The 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. <b>Do not remove the transparent cap(s) from the antenna.</b>			
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by a Multi-Device Control Unit (MDCU) inserted in the bottom of the antenna. A single module 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). <b>Do not remove the transparent cap(s) from the antenna.</b>			
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 or MDDU  
for RET Control (MDCU shown)

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

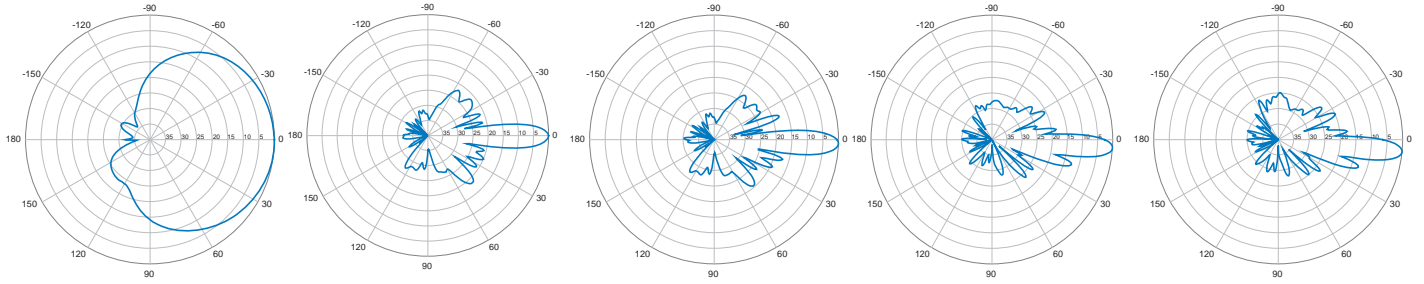


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696-960 MHz



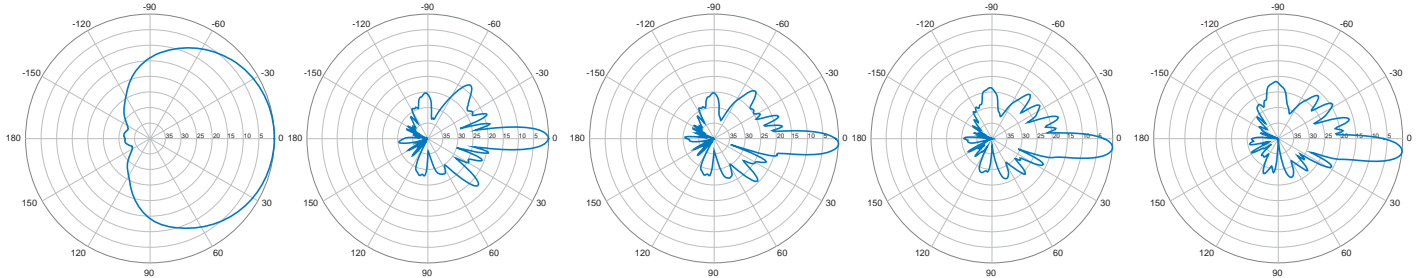
Horizontal | 750 MHz

0° | Vertical | 750 MHz

2° | Vertical | 750 MHz

4° | Vertical | 750 MHz

6° | Vertical | 750 MHz



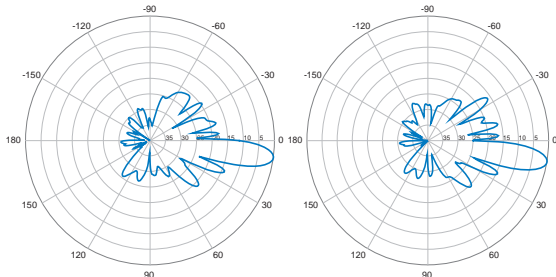
Horizontal | 850 MHz

0° | Vertical | 850 MHz

2° | Vertical | 850 MHz

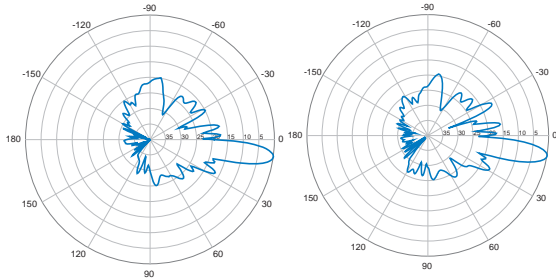
4° | Vertical | 850 MHz

6° | Vertical | 850 MHz



8° | Vertical | 750 MHz

10° | Vertical | 750 MHz



8° | Vertical | 850 MHz

10° | Vertical | 850 MHz

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