

HTXC033S17x000

Twin Band | Twin Beam Panel Antenna | 2x X-Pol | 33° | 17.1 dBi | Variable Tilt

- Twin band, twin beam panel antenna with variable tilt
- Antenna contains two X-Pol antennas pointing $\pm 28^\circ$ from the antenna boresite
- Patented internal RET actuator adds no additional length to the antenna
- Can be ordered with a Multi-Device Unit (MDDU) with two separate inputs for independent control of each band

Ordering Options	Model Number
When ordering, replace "x" in the model number with one of the options listed below.	
Manual Electrical Tilt	HTXC033S17M000
Remote Electrical Tilt AISG v1.1	HTXC033S17R000
Remote Electrical Tilt AISG v2.0 / 3GPP with MDCU	HTXC033S17R000G
Remote Electrical Tilt AISG v2.0 / 3GPP with MDDU	HTXC033S17R000L

Mounting bracket kits and other accessories are ordered separately.

Access Ports Description (Connectors)

The antenna has four (4) connectors located at the bottom face and marked with colored rings.

Left Array (-28° from antenna boresight)	696-900 MHz ports	RED Rings	(2x) 7/16-EDIN Female
Right Array ($+28^\circ$ from antenna boresight)	696-900 MHz ports	BLUE Rings	(2x) 7/16-EDIN Female


Electrical Characteristics		(2x) 696-900 MHz	
Frequency Bands	696-806 MHz	806-900 MHz	
Polarization	(2x) $\pm 45^\circ$		
Horizontal Beamwidth	44°	35°	
Vertical Beamwidth	17°	15°	
Beamwidths	Antenna contains two (2) X-Pol antennas pointing at $\pm 28^\circ$ from antenna boresite		
Gain	16.6 dBi	17.1 dBi	
Electrical Downtilt	0-16°		
Impedance	50 Ω		
VSWR	$\leq 1.5:1$		
Upper Sidelobe Suppression	-20.8 dB	-18 dB	
Front-to-Back Ratio	> 25 dB	> 25 dB	
Isolation Between Ports	< -25 dB		
Beam-to-Beam Isolation	20 dB		
IM3 (2x20W carrier)	< -150 dBc		
Input Power	500 W		
Total Number of Connectors	Antennas has 4 connectors located at the bottom		
Connectors Per Band, Type, Location	696-900 MHz	2 Connectors / EDIN Female / Bottom	
	696-900 MHz	2 Connectors / EDIN Female / Bottom	
Lightning Protection	Direct Ground		
Mechanical Characteristics			
Dimensions (Length x Width x Depth)	1365 x 525 x 180 mm	53.7 x 20.7 x 7.1 in	
Weight without Mounting Brackets	19.7 kg	43 lbs	
Survival Wind Speed	> 201 km/hr	> 125 mph	
Wind Area	Front	0.72 m ²	7.7 ft ²
	Side	0.25 m ²	2.6 ft ²
Wind Loads (160 km/hr or 100 mph)	Front	875 N	197 lbf
	Side	300 N	67 lbf



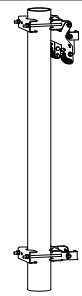
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

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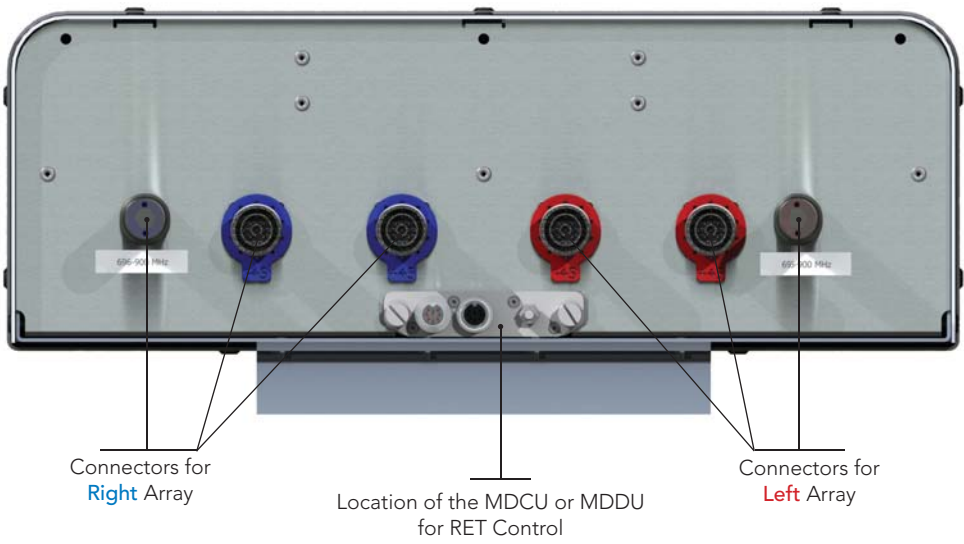
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Electrical Downtilt Control					
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).					
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator 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.				
	<table border="1"> <tr> <td>Multi-Device Control Unit (MDCU)</td> <td>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.</td> </tr> <tr> <td>Multi-Device Dual Unit (MDDU)</td> <td>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.</td> </tr> </table>	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.
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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	<div style="text-align: center;">  </div> <p>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.</p> <p>Do not install the antenna with the connectors facing upward.</p>				

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.				

2-Point Mounting and Downtilt Bracket Kit	36210006		50-115 mm 2.0-4.5 in	4.1 kg 9.0 lbs
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Bottom View





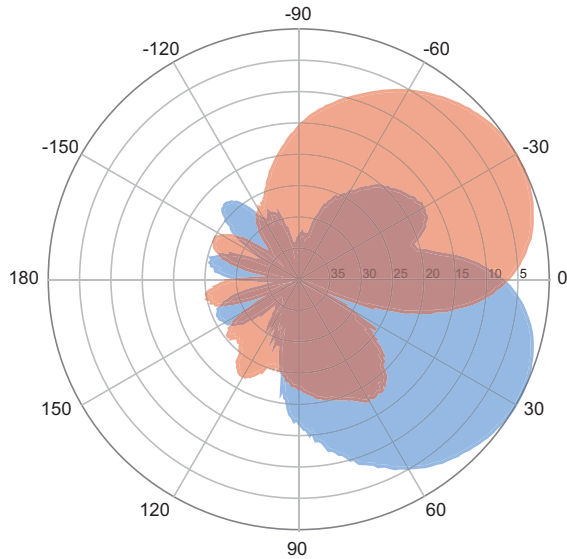
In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.

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

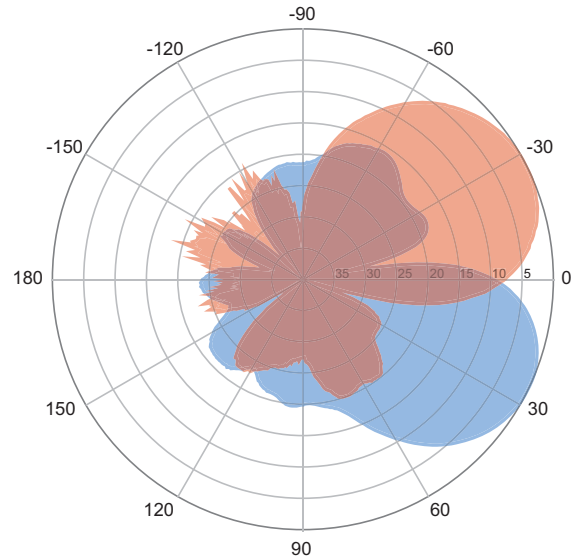
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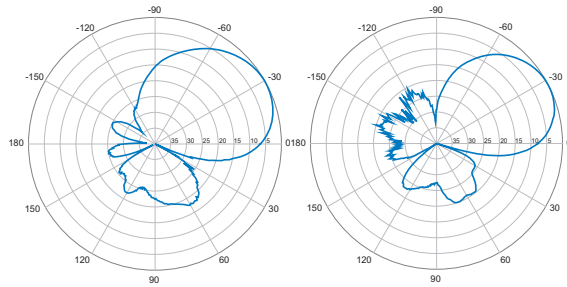


Left Array (-28°) | Right Array (+28°)
Horizontal | 750 MHz



Left Array (-28°) | Right Array (+28°)
Horizontal | 850 MHz

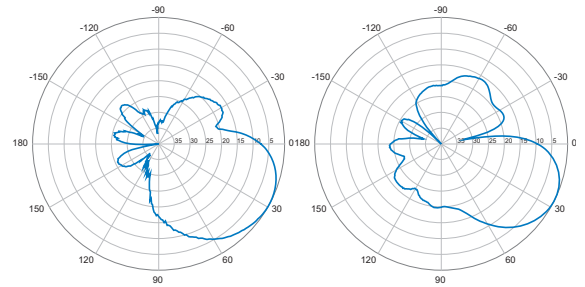
696-900 MHz Left Array



Horizontal | 750 MHz

Horizontal | 850 MHz

696-900 MHz Right Array



Horizontal | 750 MHz

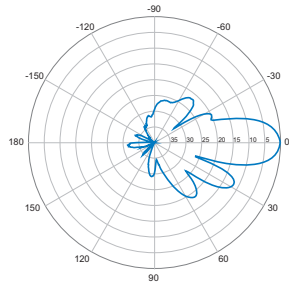
Horizontal | 850 MHz

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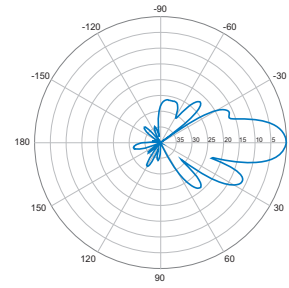
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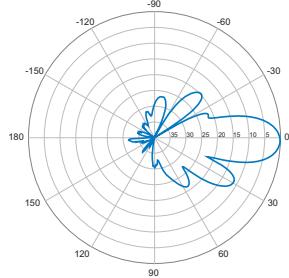
696-900 MHz



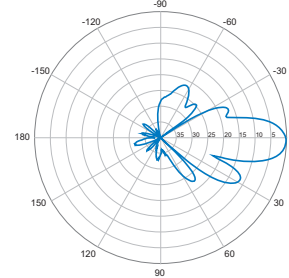
0° | Vertical | 750 MHz



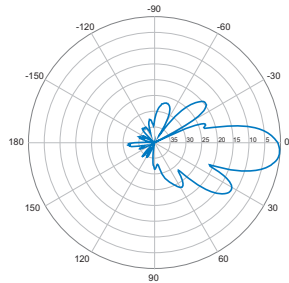
0° | Vertical | 850 MHz



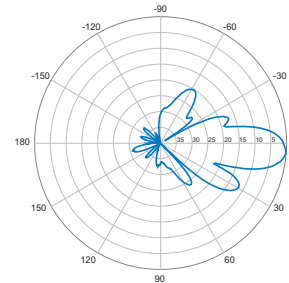
2° | Vertical | 750 MHz



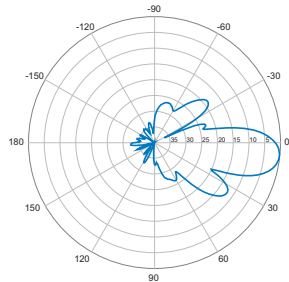
2° | Vertical | 850 MHz



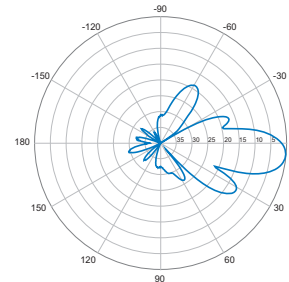
4° | Vertical | 750 MHz



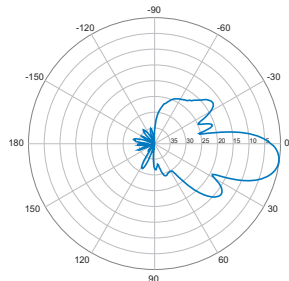
4° | Vertical | 850 MHz



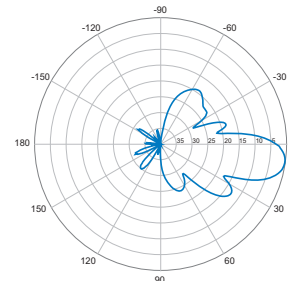
6° | Vertical | 750 MHz



6° | Vertical | 850 MHz



8° | Vertical | 750 MHz



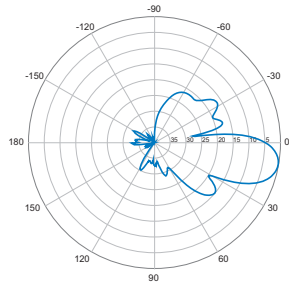
8° | Vertical | 850 MHz

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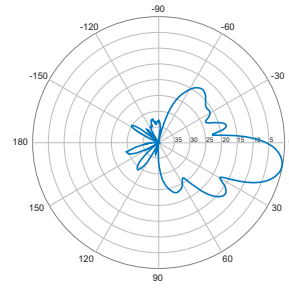
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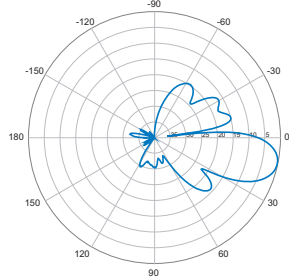
696-900 MHz



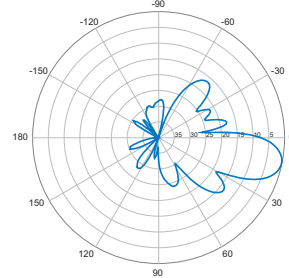
10° | Vertical | 750 MHz



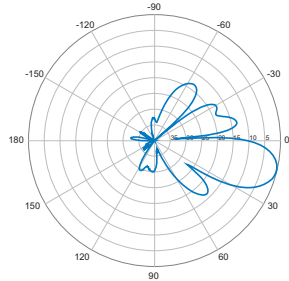
10° | Vertical | 850 MHz



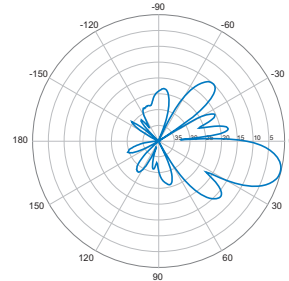
12° | Vertical | 750 MHz



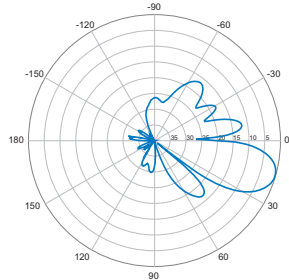
12° | Vertical | 850 MHz



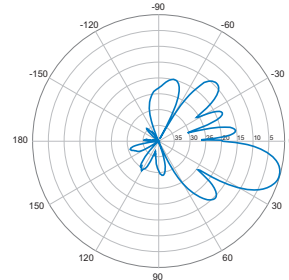
14° | Vertical | 750 MHz



14° | Vertical | 850 MHz



16° | Vertical | 750 MHz



16° | Vertical | 850 MHz

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