HTXC033S19x000

Twin Band | Twin Beam Panel Antenna | 2x X-Pol | 33° | 18.5 dBi | Variable Tilt

- Twin band, twin beam panel antenna with variable tilt
- Antenna contains two X-Pol antennas pointing ±28° from the antenna boresite
- 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**	
CONFIGURATIONS	7/16-DIN CONNECTORS	4.3-10 CONNECTORS
Manual Electrical Tilt	HTXC033S19M000	HTXC033S19M020
Remote Electrical Tilt AISG v1.1	HTXC033S19R000	HTXC033S19R020
Remote Electrical Tilt AISG v2.0 / 3GPP with MDCU	HTXC033S19R000G	HTXC033S19R020G
Remote Electrical Tilt AISG v2.0 / 3GPP with MDDU	HTXC033S19R000L	HTXC033S19R020L

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-DIN or 4.3-10 Female
Right Array (+28° from antenna boresight)	696-900 MHz ports	BLUE Rings	(2x) 7/16-DIN or 4.3-10 Female

Electrical Characteristics	**(2x) 696-900 MHz**	
Frequency Bands	696-806 MHz	806-900 MHz
Polarization	(2x) ±45°	
Horizontal Beamwidth	42°	38°
Vertical Beamwidth	9.6°	8.6°
Beamwidths	Antenna contains two (2) X-Pol antennas pointing at ±28° from antenna boresite	
Gain	17.6 dBi	18.5 dBi
Electrical Downtilt	0-10°	
Impedance	50Ω	
VSWR	≤ 1.5:1	
Upper Sidelobe Suppression	-16.9 dB	-17.4 dB
Front-to-Back Ratio	> 29 dB	> 28 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 / 7/16-DIN Female -or- 4.3-10 Female / Bottom	
Connectors Per Band, Type, Location — 696-900 MHz	2 Connectors / 7/16-DIN Female -or- 4.3-10 Female / Bottom	
Lightning Protection	Direct Ground	

Mechanical Characteristics			
Dimensions (Length x Width x Depth)		2410 x 525 x 180 mm	94.9 x 20.7 x 7.1 in
Weight without Mounting Brackets		29 kg	63 lbs
Survival Wind Speed		> 201 km/hr	> 125 mph
Wind Area	Front	1.27 m^2	13.62 ft^2
	Side	0.43 m^2	4.67 ft^2
Wind Loads (160 km/hr or 100 mph)	Front	1545 N	347 lbf
	Side	530 N	119 lbf

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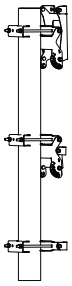
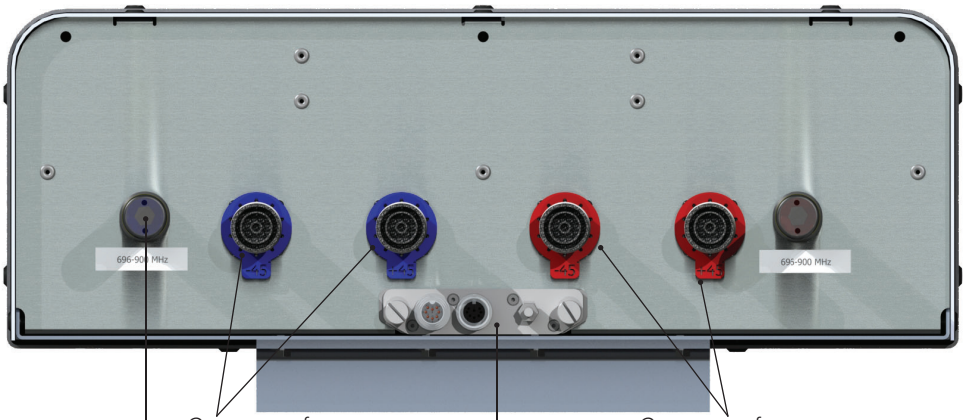
Electrical Downtilt Control		
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).		
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob 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 (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 separately unless otherwise indicated. Select from the options listed below.				
3-Point Mounting and Downtilt Bracket Kit	36210008		40-115 mm 1.57-4.5 in	6.9 kg 15.2 lbs

Bottom View



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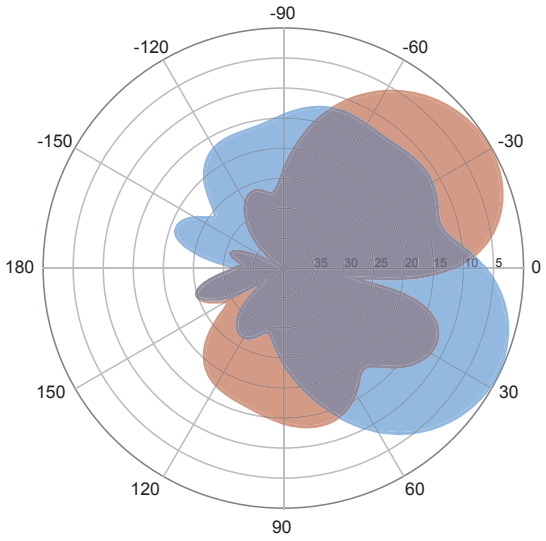
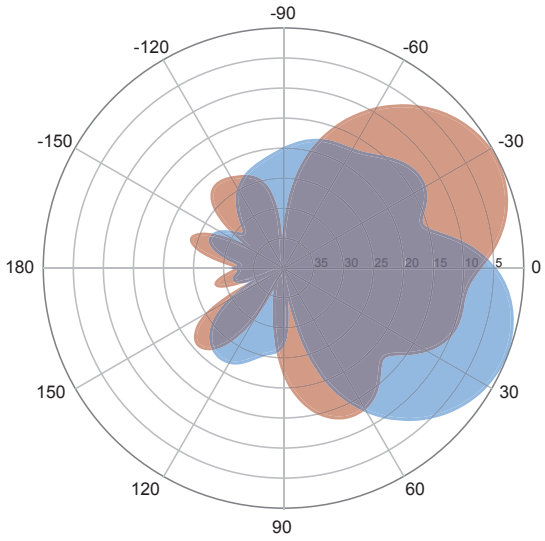
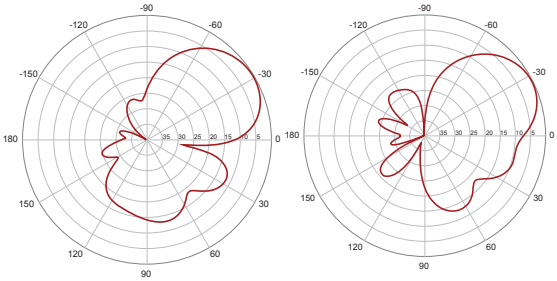


Left Array (-28°) | Right Array (+28°)
Horizontal | 750 MHz

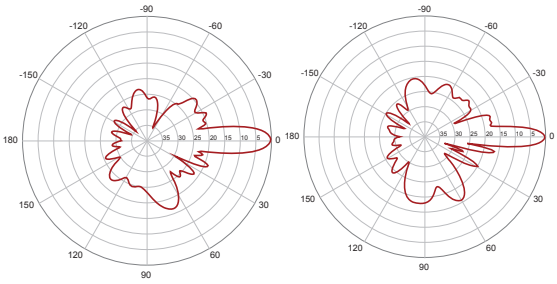


Left Array (-28°) | Right Array (+28°)
Horizontal | 850 MHz

696-900 MHz Left Array

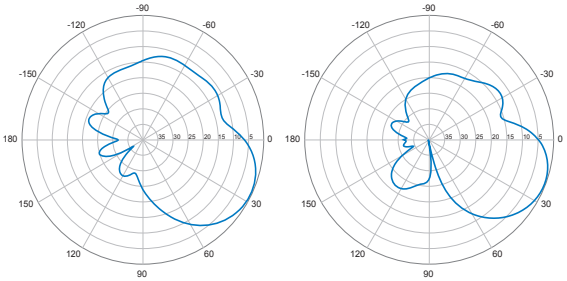


Horizontal | 750 MHz | Horizontal | 850 MHz

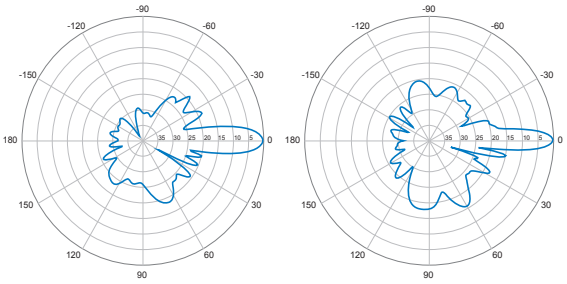


0° | Vertical | 750 MHz | 0° | Vertical | 850 MHz

696-900 MHz Right Array



Horizontal | 750 MHz | Horizontal | 850 MHz



0° | Vertical | 750 MHz | 0° | Vertical | 850 MHz

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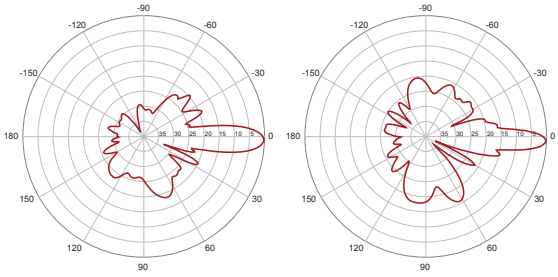
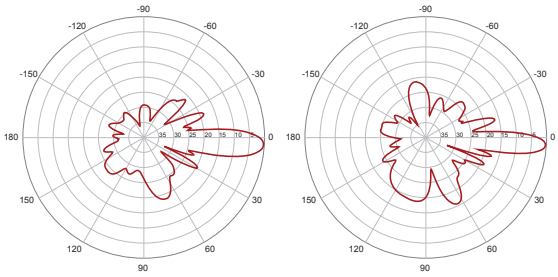
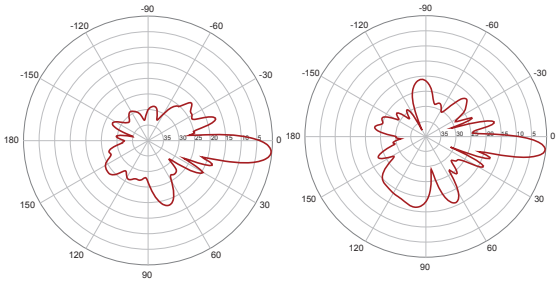
696-900 MHz Left Array



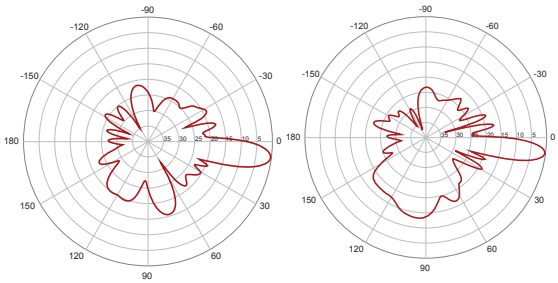
2° | Vertical | 750 MHz | 2° | Vertical | 850 MHz



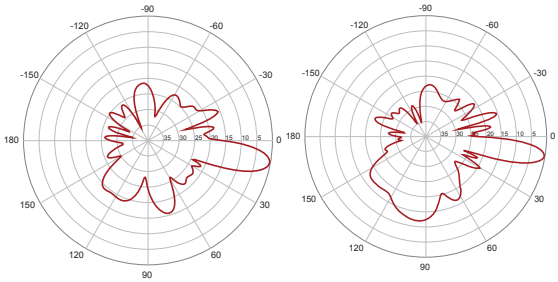
4° | Vertical | 750 MHz | 4° | Vertical | 850 MHz



6° | Vertical | 750 MHz | 6° | Vertical | 850 MHz

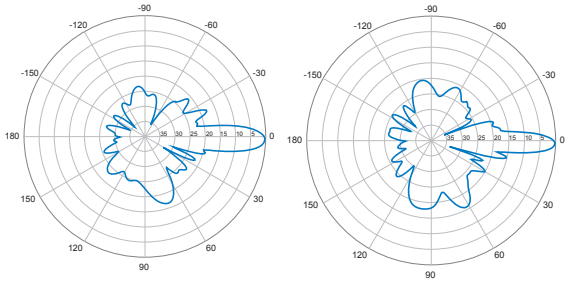


8° | Vertical | 750 MHz | 8° | Vertical | 850 MHz

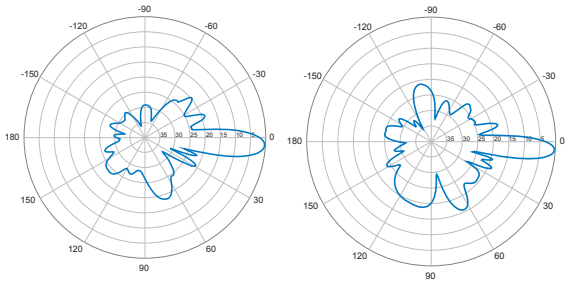


10° | Vertical | 750 MHz | 10° | Vertical | 850 MHz

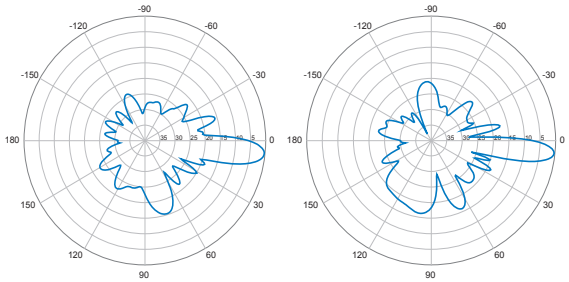
696-900 MHz Right Array



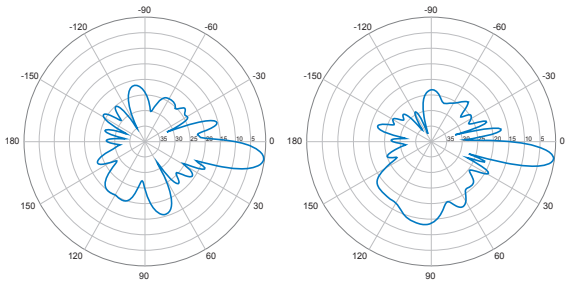
2° | Vertical | 750 MHz | 2° | Vertical | 850 MHz



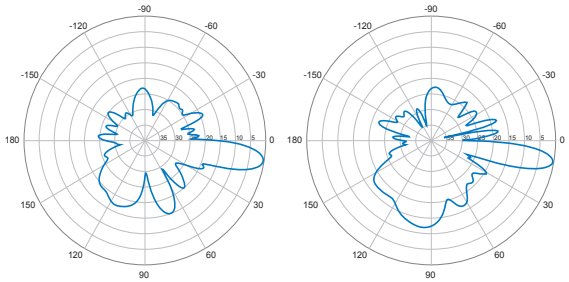
4° | Vertical | 750 MHz | 4° | Vertical | 850 MHz



6° | Vertical | 750 MHz | 6° | Vertical | 850 MHz



8° | Vertical | 750 MHz | 8° | Vertical | 850 MHz



10° | Vertical | 750 MHz | 10° | Vertical | 850 MHz