

WWX063X19x00

Twin Band | Panel Antenna | 2x X-Pol | 65° / 65° | 19.0 / 19.0 dBi | Variable Tilt

- Twin band, 2x X-Pol (Quad-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		WWX063X19M00	
Remote Electrical Tilt AISG v1.1		WWX063X19R00	
Remote Electrical Tilt AISG v2.0 / 3GPP		WWX063X19G00	
Mounting bracket kits and other accessories are ordered separately.			
Electrical Characteristics		2 x 1710-2170 MHz	
Frequency Bands		1710-1880 MHz	1850-1990 MHz
Polarization		2 x ±45° (Quad-Pol)	
Horizontal Beamwidth		70°	66°
Vertical Beamwidth		5°	4°
Gain		18.3 dBi	19.0 dBi
Electrical Downtilt		0-10°	
Impedance		50Ω	
VSWR		< 1.5:1	
Upper Sidelobe Suppression		< -17 dB Typical	
Front-to-Back Ratio		> 27 dB	
In-Band Isolation		> 30 dB	
Isolation Between Ports		> 30 dB	
IM3 (2x20W carrier)		< -153 dBc	
Input Power		250 W	
Total Number of Connectors		Antennas has 4 connectors located at the bottom	
Connectors Per Band, Type, Location	1710-2170 MHz	2 Connectors / 7/16-DIN Female / Bottom / Blue Rings	
	1710-2170 MHz	2 Connectors / 7/16-DIN Female / Bottom / White Rings	
Diplexed		No	
Lightning Protection		Direct Ground	
Operating Temperature		-40° to +60° C (-40° to +140° F)	
Mechanical Characteristics			
Dimensions (Length x Width x Depth)		1906 x 307.3 x 177.2 mm	75.0 x 12.1 x 7.0 in
Weight without Mounting Brackets: MET		14.5 kg	32.0 lbs
Weight without Mounting Brackets: RET		14.8 kg	32.7 lbs
Survival Wind Speed		241 km/hr	150 mph
Wind Loads (160 km/hr or 100 mph)	Front	707 N	159 lbf
	Side	419 N	94 lbf

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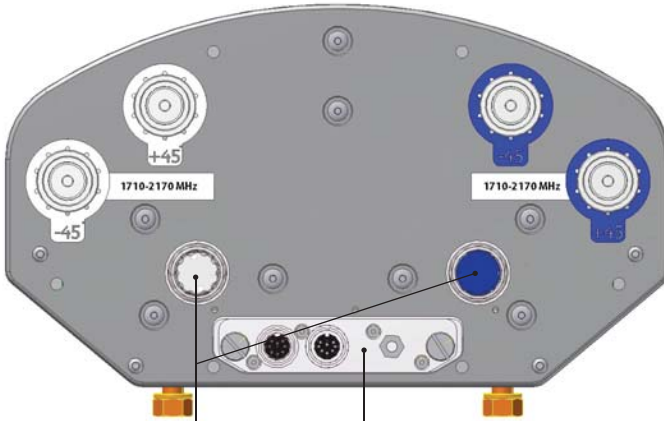
Electrical Downtilt Control				
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The 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 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 WWX063X19R00	
	Part Number for 3GPP/AISG v2.0 protocol:	MDCU-G0000	One unit installed in WWX063X19G00	
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



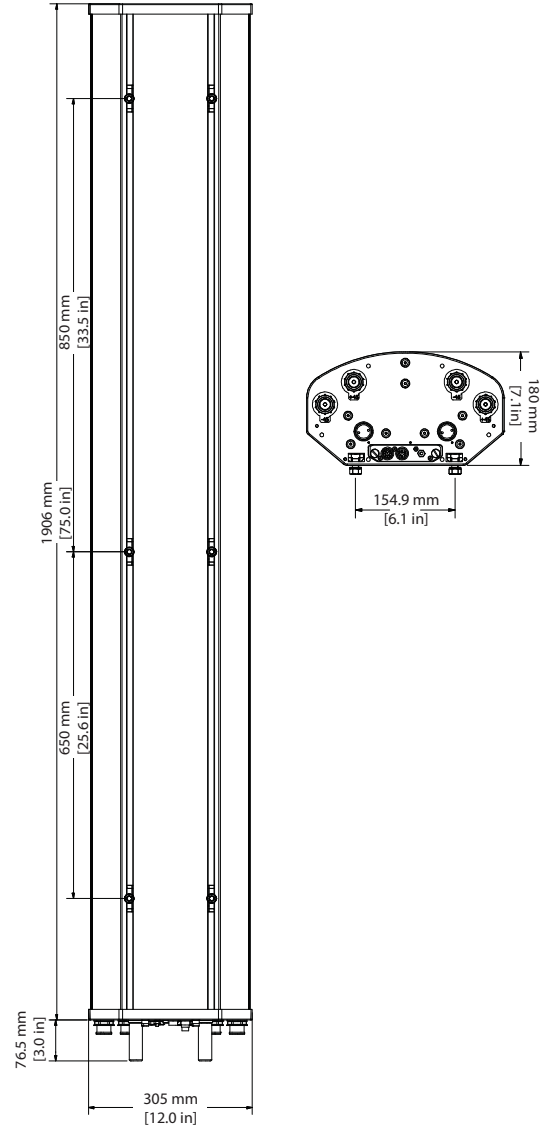
Location of the MDCU for RET Control

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



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.

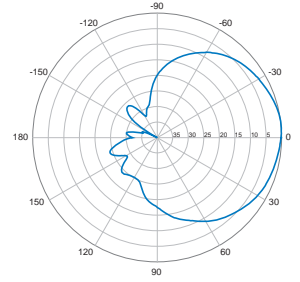
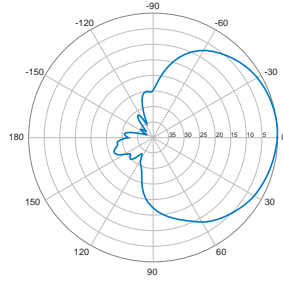
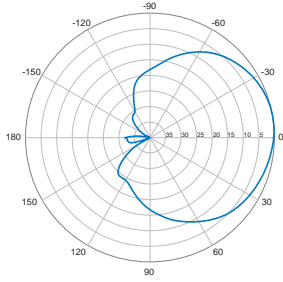
Dimensions



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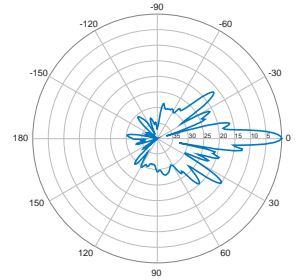
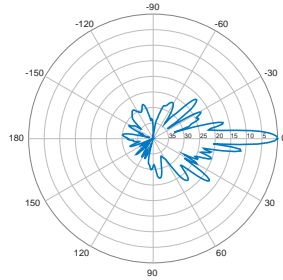
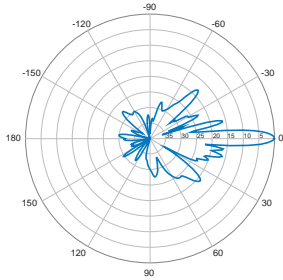
1710-2170 MHz



Horizontal | 1800 MHz

Horizontal | 1900 MHz

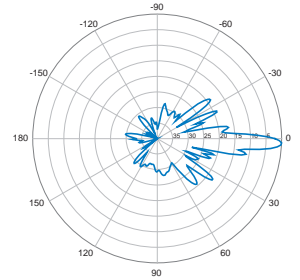
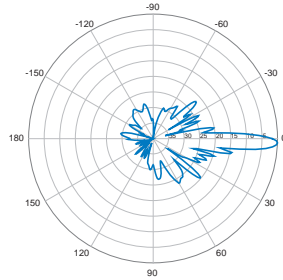
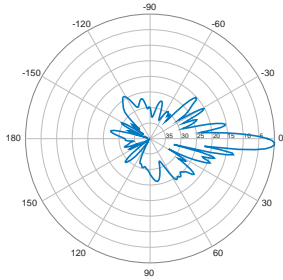
Horizontal | 2100 MHz



0° | Vertical | 1800 MHz

0° | Vertical | 1900 MHz

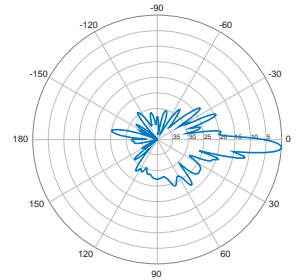
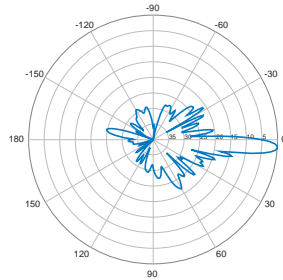
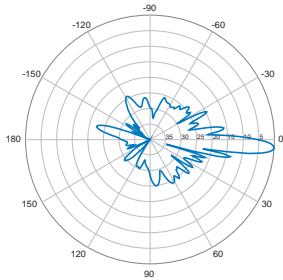
0° | Vertical | 2100 MHz



2° | Vertical | 1800 MHz

2° | Vertical | 1900 MHz

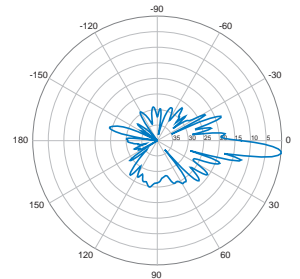
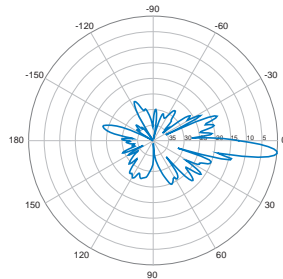
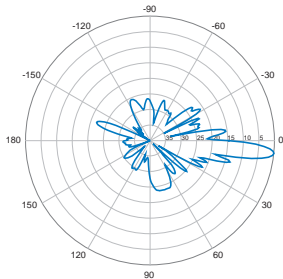
2° | Vertical | 2100 MHz



4° | Vertical | 1800 MHz

4° | Vertical | 1900 MHz

4° | Vertical | 2100 MHz



6° | Vertical | 1800 MHz

6° | Vertical | 1900 MHz

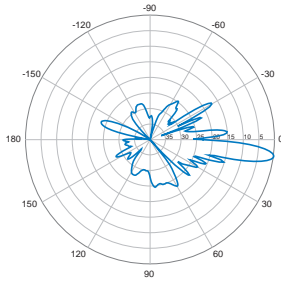
6° | Vertical | 2100 MHz

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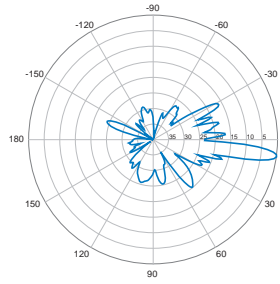
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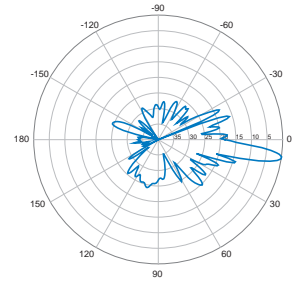
1710-2170 MHz



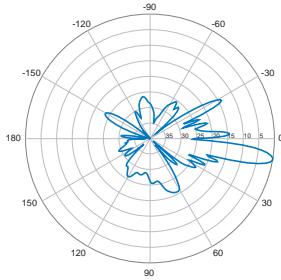
8° | Vertical | 1800 MHz



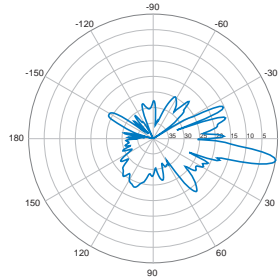
8° | Vertical | 1900 MHz



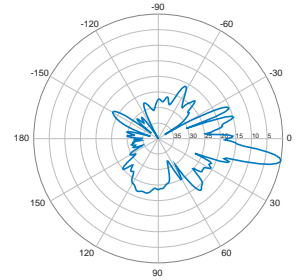
8° | Vertical | 2100 MHz



10° | Vertical | 1800 MHz



10° | Vertical | 1900 MHz



10° | Vertical | 2100 MHz

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