

HTXCW451619x000

Dual Band | Panel Antenna | XX-Pol | 45° / 46° | 16.3 / 18.5 dBi | Variable Tilt

- Dual band, XX-Pol, variable tilt, panel antenna
- 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	HTXCW451619M000
Remote Electrical Tilt AISG v1.1	HTXCW451619R000
Remote Electrical Tilt AISG v2.0 / 3GPP	HTXCW451619R000G

Mounting bracket kits and other accessories are ordered separately.




Electrical Characteristics	696-896 MHz		1710-2170 MHz		
	696-806	806-896	1710-1880	1850-1990	1920-2170
Frequency Bands (MHz)	696-806	806-896	1710-1880	1850-1990	1920-2170
Polarization	±45°		±45°		
Horizontal Beamwidth	47°	45°	48°	48°	46°
Vertical Beamwidth	15°	14°	7.5°	7°	6°
Gain	15.5 dBi	16.3 dBi	18.0 dBi	18.3 dBi	18.5 dBi
Electrical Downtilt	2-14°		2-10°		
Impedance	50Ω				
VSWR	≤ 1.5:1		≤ 1.5:1		
Upper Sidelobe Suppression	15 dB Typical		16 dB		
Front-to-Back Ratio	> 25 dB		> 25 dB		
Isolation Between Bands (inter-band)	35 dB Typical				
Isolation Between Ports (intra-band)	> 25 dB				
CrossPol Discrimination (at 0°)	> 15 dB				
IM3 (2x20W carrier)	< -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	696-896 MHz	2 Connectors / 7/16-DIN Female / Bottom			
	1710-2170 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)	1389 x 520 x 177 mm		54.7 x 20.5 x 7.0 in		
Weight without Mounting Brackets	16.6 kg		36.6 lbs		
Survival Wind Speed	> 241 km/hr		> 150 mph		
Wind Loads (160 km/hr or 100 mph)	Front	1239 N	279 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 HTXCW451619R000	
	Part Number for 3GPP/AISG v2.0 protocol:	MDCU-G0000	One unit installed in HTXCW451619R000G	
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.				
2-Point Mounting Bracket Kit	MKS04P01		40-115 mm 1.57-4.5 in	2.9 kg 6.4 lbs
2-Point Mounting & Downtilt Bracket Kit	MKS04T03		40-115 mm 1.57-4.5 in	4.1 kg 9.0 lbs

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Bottom View of Antenna



Location of the MDCU
for RET Control

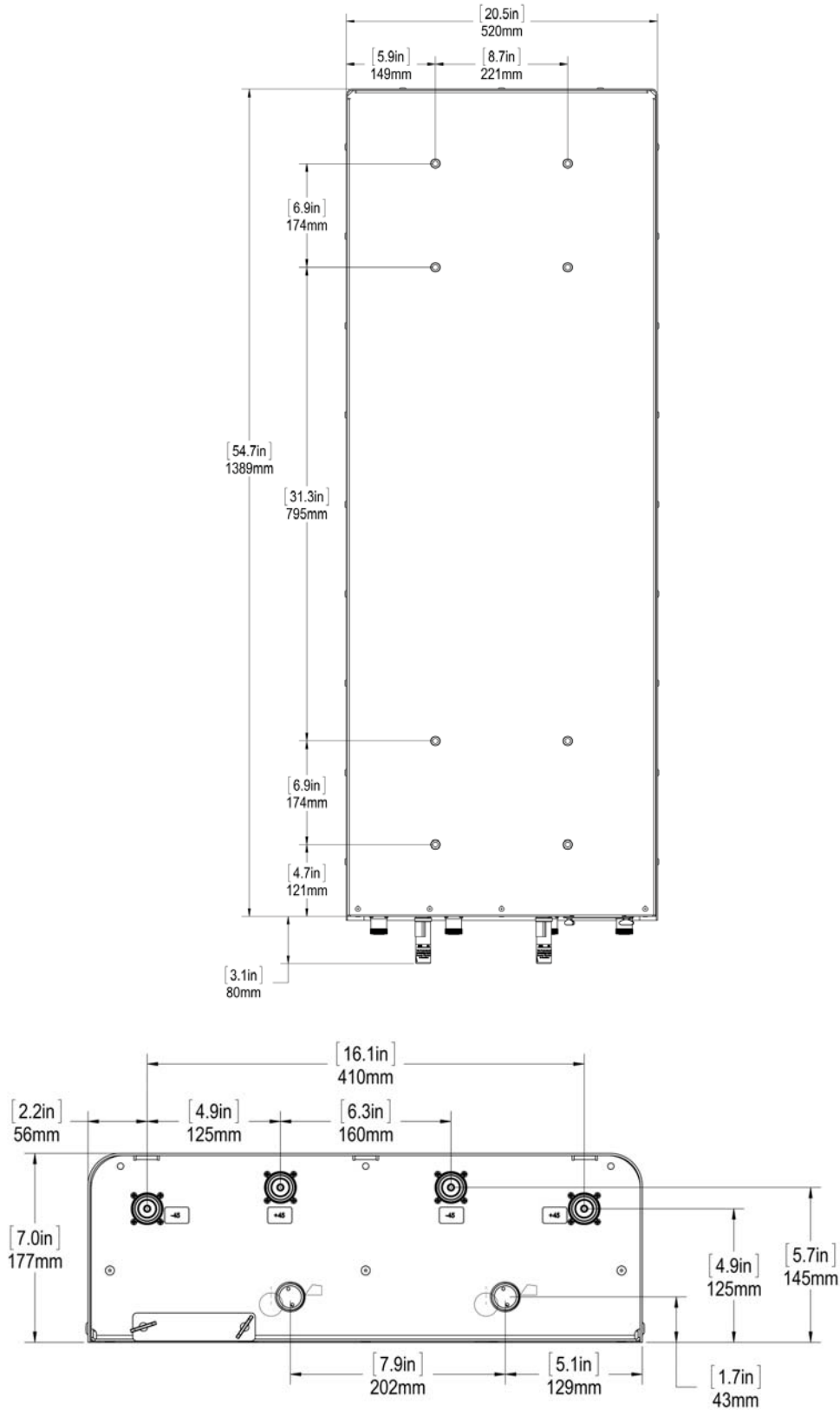
Tilt indicators covered by transparent caps.
Manual adjustment is accessed by removing the caps.
Knob colors are the same as the connectors.



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.

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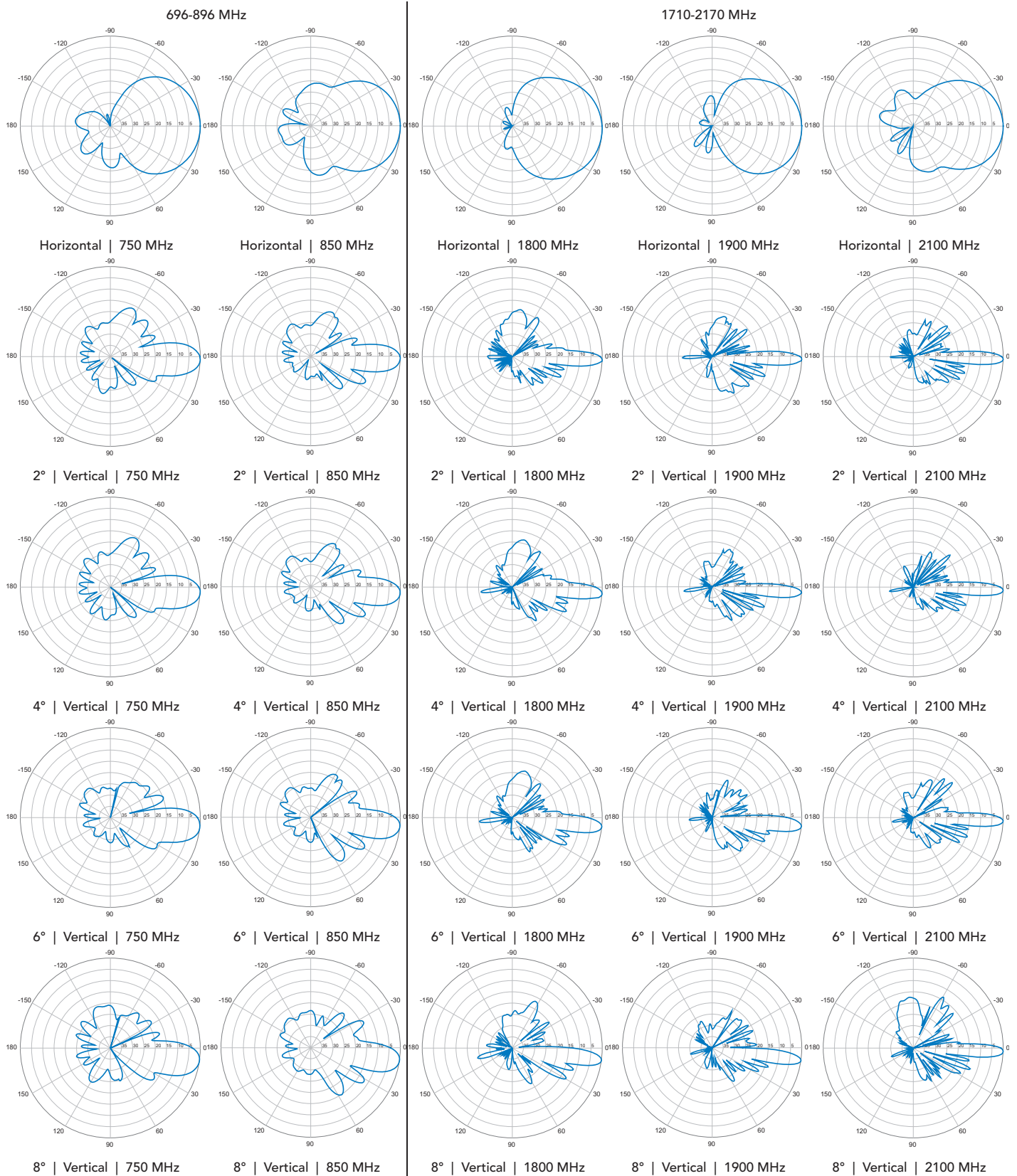
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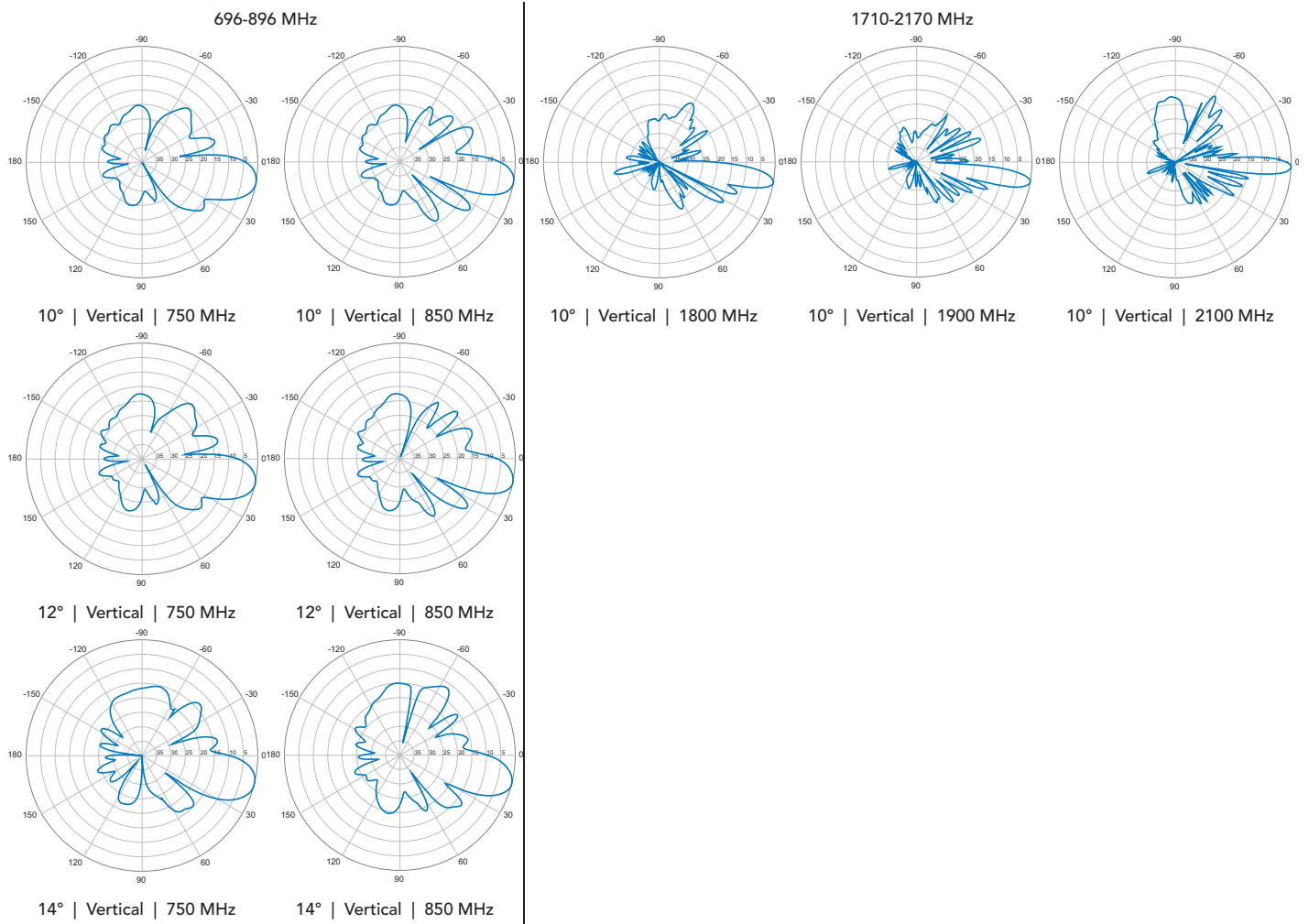
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