

HTXC4518x050

Single Band | Panel Antenna | X-Pol | 45° | 17.8 dBi | Variable Tilt

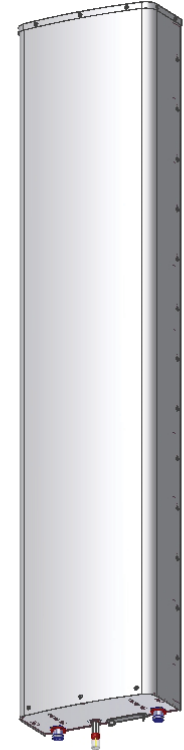
- Single band, X-Pol, variable tilt, panel antenna
- Patented internal RET actuator adds no additional length to the antenna
- MET and RET versions, AISG1.1 or 3GPP/AISG2.0

Ordering Options	Model Number
When ordering, replace "x" in the model number with one of the options listed below.	
Manual Electrical Tilt	HTXC4518M050
Remote Electrical Tilt AISG v1.1 with an MDCU RET Actuator	HTXC4518R050
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator	HTXC4518G050

Mounting bracket kits and other accessories are ordered separately. See options on the following page(s).

Electrical Characteristics	696-900 MHz	
Frequency Bands	696-806 MHz	806-900 MHz
Polarization	±45°	
Horizontal Beamwidth	48°	43°
Vertical Beamwidth	11.5°	10°
Gain	17.0 dBi	17.8 dBi
Electrical Downtilt	0-10°	
Impedance	50Ω	
VSWR	≤ 1.5:1	
Upper Sidelobe Suppression	> 18 dB	> 18 dB
Front-to-Back Ratio (±30°)	> 30 dB	> 30 dB
Isolation Between Ports	> 25 dB	
IM3 (2x20W carrier)	-150 dBc	
Input Power	(2x) 500 W	
Total Number of Connectors	Antenna has 2 connectors located at the bottom	
Connectors Per Band	696-900 MHz	(2x) 7/16-EDIN Female
Diplexed	No	
Lightning Protection	Direct Ground	
Operating Temperature	-40° to +60° C (-40° to +140° F)	


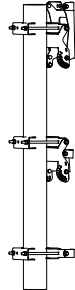
Mechanical Characteristics		
Dimensions (Length x Width x Depth)	1937 x 407 x 180 mm	76.3 x 16.0 x 7.1 in
Weight without Mounting Brackets: MET	18.1 kg	40.0 lbs
Weight without Mounting Brackets: RET	18.5 kg	40.7 lbs
Survival Wind Speed	> 201 km/hr	> 125 mph
Wind Loads (160 km/hr or 100 mph)	Front	974 N
	Side	432 N
		219 lbf
		97 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. 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 HTXC4518R050	
	Part Number for 3GPP/AISG v2.0 protocol:	MDCU-G0000	One unit installed in HTXC4518G050	
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 & Downtilt Bracket Kit	36210008		40-115 mm 1.57-4.5 in	6.9 kg 15.2 lbs
Configuration Options	Part Number	Image	Product Description	
This antenna model cannot be used with Amphenol's UNICELL 3-sector antenna enclosures.				

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Bottom View of Antenna



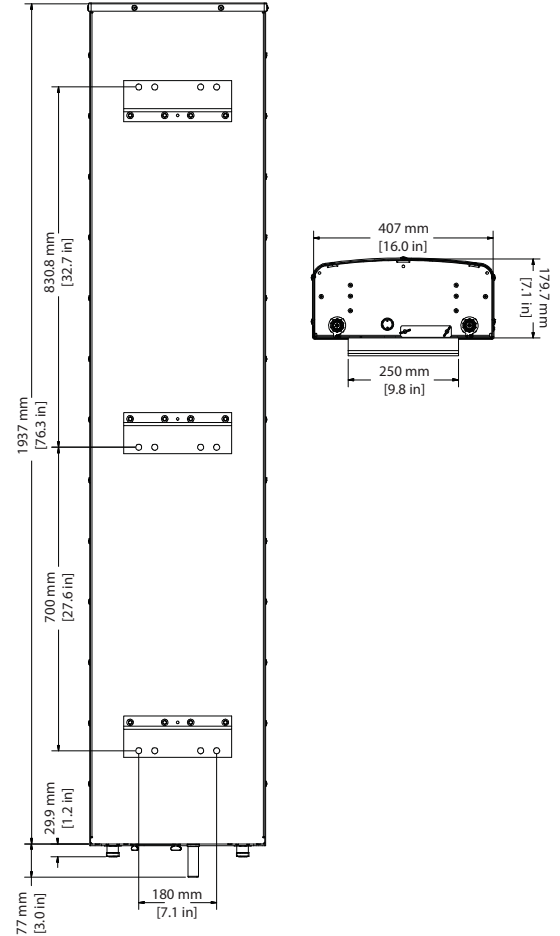
Location of the MDCU
for RET Control

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

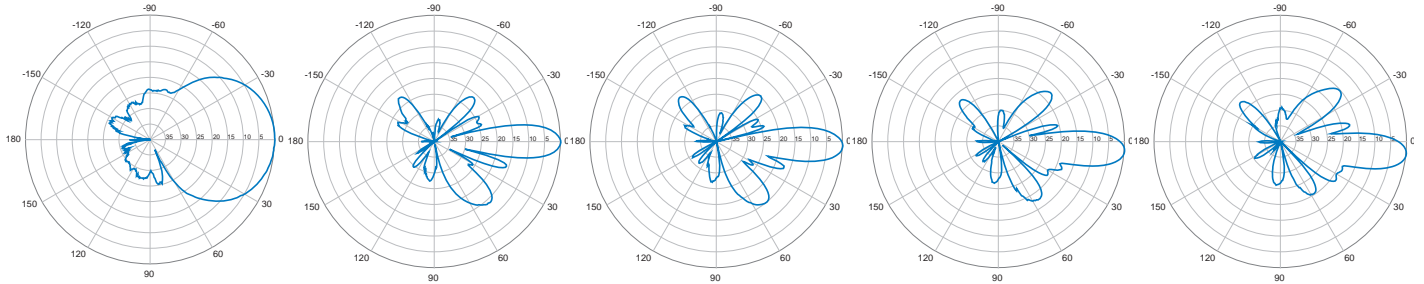


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696-900 MHz



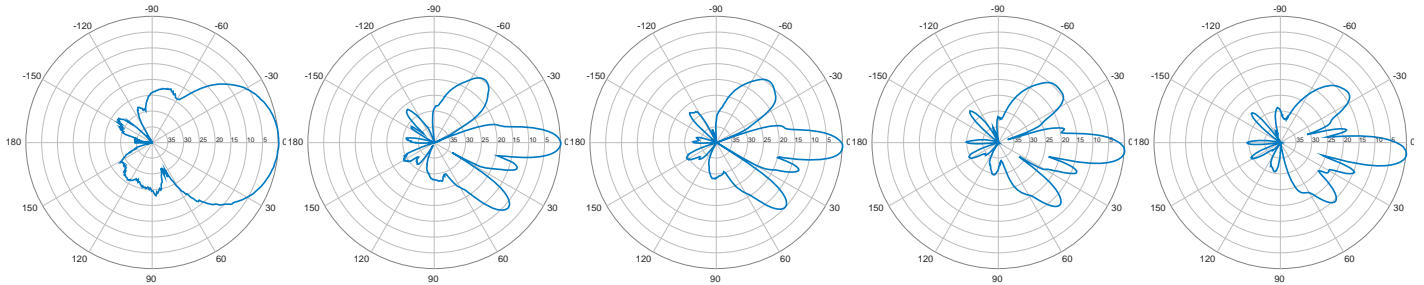
Horizontal | 750 MHz

0° | Vertical | 750 MHz

2° | Vertical | 750 MHz

4° | Vertical | 750 MHz

6° | Vertical | 750 MHz



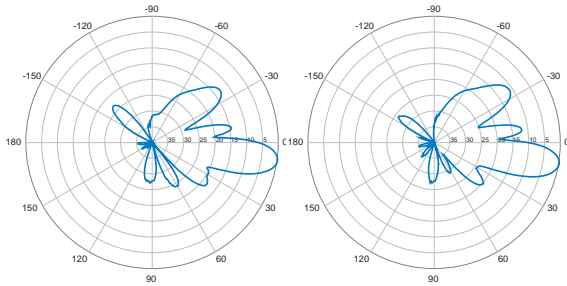
Horizontal | 850 MHz

0° | Vertical | 850 MHz

2° | Vertical | 850 MHz

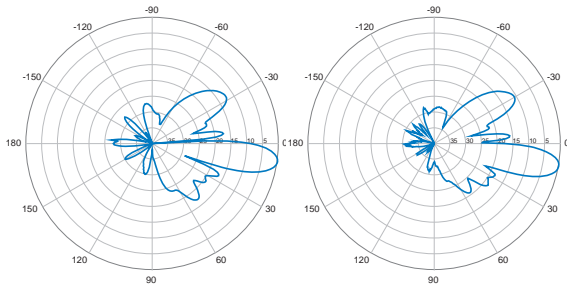
4° | Vertical | 850 MHz

6° | Vertical | 850 MHz



8° | Vertical | 750 MHz

10° | Vertical | 750 MHz



8° | Vertical | 850 MHz

10° | Vertical | 850 MHz

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