

# HT4C8017x000

Twin Band | Panel Antenna | 2x X-Pol | 80° / 80° | 17.0 / 17.0 dBi | Variable Tilt


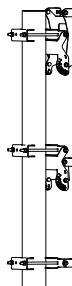
- Twin band, 2x X-Pol (Quad-Pol), variable tilt, panel antenna
- Patented internal RET actuator adds no additional length to the antenna

Ordering Options		Model Number
When ordering, replace "x" in the model number with one of the options listed below.		
Manual Electrical Tilt		HT4C8017M000
Remote Electrical Tilt AISG v1.1		HT4C8017R000
Remote Electrical Tilt AISG v2.0 / 3GPP		HT4C8017R000G
Mounting bracket kits and other accessories are ordered separately.		
Electrical Characteristics		2 x 696-900 MHz
Frequency Bands		696-806 MHz      806-900 MHz
Polarization		2 x ±45° (Quad-Pol)
Horizontal Beamwidth		86°      80°
Vertical Beamwidth		8°      7.5°
Gain		14.4 dBd (16.5 dBi)      14.9 dBd (17.0 dBi)
Electrical Downtilt		0-10°
Impedance		50Ω
VSWR		≤ 1.5:1
Upper Sidelobe Suppression		> 16 dB      > 16 dB
Front-to-Back Ratio		> 25 dB      > 25 dB
Isolation Between Ports		> 25 dB      > 25 dB
IM3 (2x20W carrier)		-150 dBc      -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 / Bottom
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Lightning Protection		Direct Ground
Operating Temperature		-40° to +60° C (-40° to +140° F)
Mechanical Characteristics		
Dimensions (Length x Width x Depth)		2411 x 520 x 180 mm      94.9 x 20.5 x 7.1 in
Depth with Z-Brackets		227 mm      8.9 in
Weight without Mounting Brackets: MET		31.0 kg      68.3 lbs
Weight without Mounting Brackets: RET		31.3 kg      69.0 lbs
Survival Wind Speed		> 201 km/hr      > 125 mph
Wind Loads (160 km/hr or 100 mph)	Front	1546 N      348 lbf
	Side	551 N      124 lbf



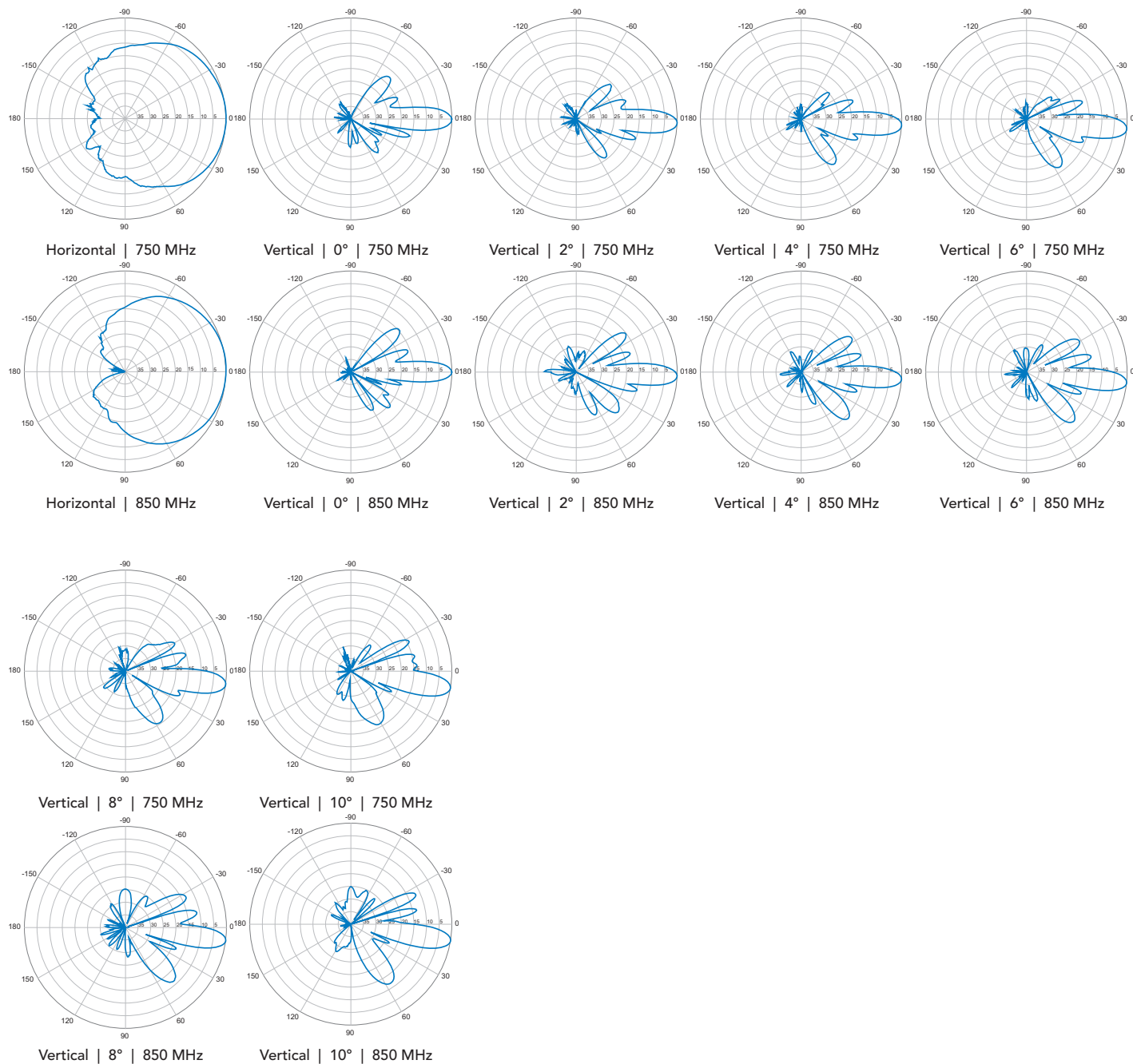
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Electrical Downtilt Control				
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator 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 Multi-Device Control Unit (MDCU) inserted in the bottom of the antenna. A single module 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 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 HT4C8017R000	
	Part Number for 3GPP/AISG v2.0 protocol:	MDCU-G0000	One unit installed in HT4C8017R00G	
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 1.6-4.5 in	6.9 kg 15.2 lbs

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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.