

TRI BAND | HEX PORT | PANEL ANTENNA | XXX-POL | 45° / 45° / 45° | 15.1 / 17.8 / 17.8 DBI | VARIABLE TILT

Features

- Ultra wide-band, AWS-3 Ready
- 4x4 MIMO high band compatible
- 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

Connector Description The antenna has six (6) connectors located at the bottom, each marked with a colored ring. Low Band 696-960 MHz Red Rings (2x) 7/16-DIN Female High Band #1 1695-2400 MHz Yellow Rings (2x) 7/16-DIN Female High Band #2 1695-2400 MHz Orange Rings (2x) 7/16-DIN Female



Electrical Characteristics			Low Band		High Band #1 and #2				
Frequency Bands (MHz)		696-960 MHz		(2x) 1695-2400 MHz					
		696-806	806-960	1695-1850	1850-1990	2100-2180	220	00-2400	
Polarization		±45°		(2x) ±45°					
Horizontal Beamwidth		48°	41°	50°	45°	43°		41°	
Vertical Beamwidth			22.0°	18.2°	9.0°	8.5°	7.8°		6.9°
Gain			13.8 dBi	15.1 dBi	16.5 dBi	17.0 dBi	17.5 dBi	17	7.8 dBi
Electrical Downtilt		0-14°		0-10°					
Impedance		50Ω		50Ω					
VSWR			< 1.5:1		< 1.5:1				
Upper Sidelobe Suppression			> 18 dB Typical		> 15 dB Typical				
Front-to-Back Ratio			> 24 dB		> 27 dB				
In-Band Isolation			> 25 dB		> 28 dB				
Isolation Between Ports			> 30 dB		> 30 dB				
IM3 (2x20W carrier)			< -153 dBc		< -153 dBc				
Input Power			(2x) 500 W		(4x) 250 W				
Diplexed			No						
Lightning Protection			Direct Ground						
Operating Temperature			-40° to +60° C (-40° to +140° F)						
Mecha	anical Characte	eristics							
Dimensions (Length x Width x Depth)		1189	9 x 397 x 187	mm		46.8 x 15.6 x	7.4	in	
Weight	Antenna Only			18.1	kg		4	0.0	lbs
	Antenna with Mounting Bracket Kit 36210006			22.2	kg		4	18.9	lbs
Survival Wind Speed				241	km/hr			150	mph
Wind Loa		Front		604	N			136	lbf
(4 (0)									

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.

280 N

(160 km/hr or 100 mph)

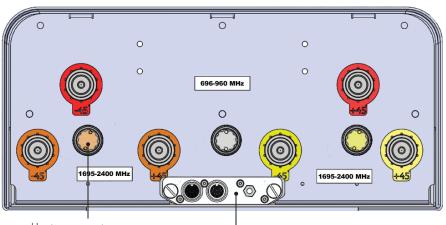
Side

63 lbf



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ntrol			
Manual Electrical Tilt (MET) Control Electrical downtilt for each band can be controlled separately. A colored knob at the end of indicator allows change of the tilt without need of a tool. The knob color is identical to the connector ring color. To access the knob, remove the cap by turning it counter-clockwise. I by opposite rotation. Do not remove the transparent cap(s) from the antenna.			
Electrical downtilt for each band can be controlled separately. 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). Do not remove the transparent cap(s) from the antenna.			
Multi-Device Control Unit (MDCU) 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.	Multi-Device Dual Unit (MDDU) Allows two separate RET Controllers to independently drive the RETs in Amphenol antennas with factory installed motors (for antenna sharing). The MDDU is factory installed. Refer to Ordering Options for unique AISG port configirations		
	Port A Port B Two separate inputs		
	Electrical downtilt for each band can be controlled so indicator allows change of the tilt without need of a connector ring color. To access the knob, remove the by opposite rotation. Do not remove the transparant Electrical downtilt for each band can be controlled so managed by either a Multi-Device Control Unit (MDC) the bottom of the antenna. A single actuator individud chain cables between the bands). This module does control, the transparent caps must be in place and leand the antenna still has manual tilt control (manual Do not remove the transparent cap(s) from the Multi-Device Control Unit (MDCU) 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.		



Tilt indicators covered by transparent caps. Knob colors are the same as the connectors.

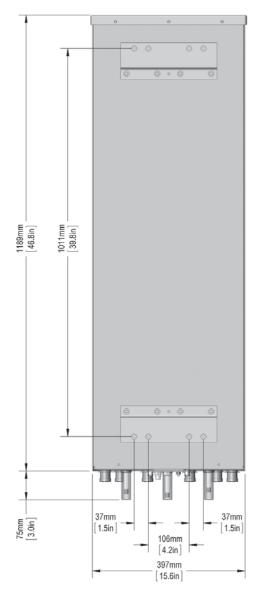
Location of the MDCU or MDDU for RET Control (MDCU shown)



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.



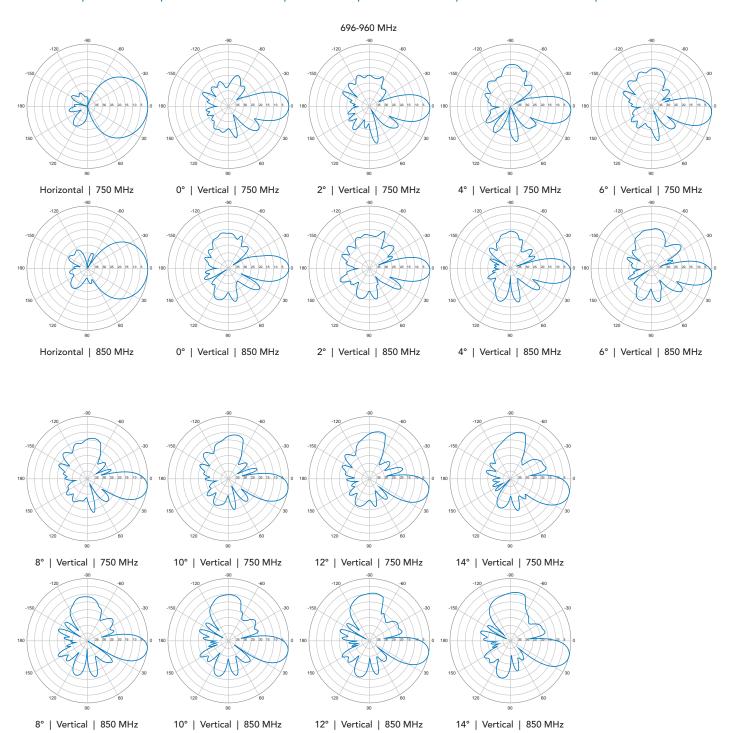
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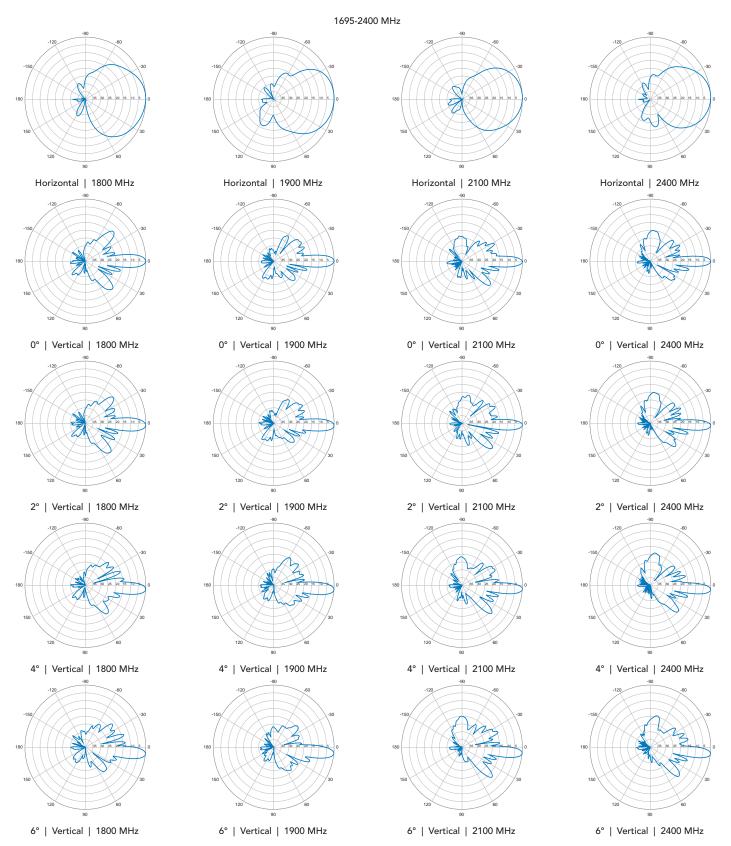


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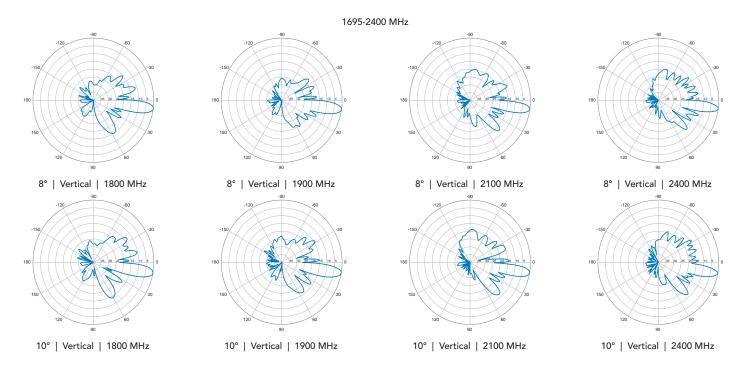


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Antenna Ordering Options

Select Electrical	A atuatas Dassistica	Select RET Ad	Antenna		
Tilt Type	Actuator Description	Port A	Port B	Model Number	
Manual Electrical Tilt				HEX454CU000 0M	
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator	The MDCU (Multi-Device Control Unit) 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.			HEX454CU000 0G	
Remote Electrical Tilt	The MDDU (Multi-Device Dual Unit) allows two separate RET Controllers to independently drive the RETs in Amphenol antennas with factory installed motors (for antenna sharing). The MDDU is factory installed.	Red 696-960 MHz	Orange / Yellow 1695-2400 / 1695-2400 MHz	HEX454CU000 0L	
AISG v2.0 / 3GPP with an MDDU RET		Yellow 1695-2400 MHz	Orange / Red 1695-2400 / 696-960 MHz	HEX454CU000 L1	
Actuator		Orange 1695-2400 MHz	Yellow / Red 1695-2400 / 696-960 MHz	HEX454CU000 L2	

Mounting Kit Ordering Options All mounting bracket kits are ordered separately unless otherwise indicated.

Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight	
2-Point Mounting and Downtilt Bracket Kit	36210006		40-115 mm 1.6-4.5 in	4.1 kg 9 lbs	