

#### QUAD BAND | 8-PORT | WITH INTERNAL SMART BIAS-T | XXXX-POL | 81° / 82° / 84° / 84° | 13.4 / 14.3 / 16.0 / 16.0 DBI

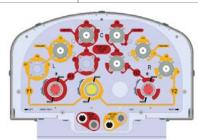
#### **Features**

- Quad band, 8-port panel with variable electrical tilt
- Features two internal Smart Bias-T units
- Ultra-wideband frequency
- 4x4 MIMO high band compatible
- Independent lowband (R1 & R2) tilt and combined highband (Y1 & Y2) tilt

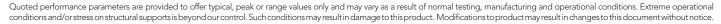
## **Connector Description**

The antenna has eight (8) connectors located at the bottom.

Low Band #1	R1	696-798 MHz	Red Rings	(4x) 7/16-DIN Female	
Low Band #2	R2	824-900 MHz	Red Kings	(4x) 77 10-DIN Female	
High Band #1	Y1	1695-2400 MHz	Vella D'acc	/4 \ 7/4 / DINI F	
High Band #2	Y2	1695-2400 MHz	Yellow Rings	(4x) 7/16-DIN Female	



Electrical Characteristics	R1	R2	Y1 and Y2			
For the Post (MIL)	696-798	824-900	(2x) 1695-2400 MHz			
Frequency Bands (MHz)			1695-1850	1850-1990	2100-2180	2200-2400
Polarization	±45°	±45°	(2x) ±45°			
Horizontal Beamwidth	81°	82°	79°	81°	84°	79°
Vertical Beamwidth	11.6°	10.1°	5.5°	5.1°	4.8°	4.6°
Gain	13.4 dBi	14.0 dBi	15.9 dBi	16.0 dBi	15.8 dBi	16.0 dBi
Electrical Downtilt	0-12°	0-12°	0-10°			
Impedance	50Ω	50Ω	50Ω			
VSWR	< 1.5:1	< 1.5:1	< 1.5:1			
Upper Sidelobe Suppression (Typical)	> 17 dB	> 17 dB	> 18 dB			
Front-to-Back Ratio	> 30 dB	> 30 dB	> 25 dB			
In-Band Isolation	> 23 dB	> 23 dB	> 25 dB			
Isolation Between Ports	> 30 dB	> 30 dB	> 30 dB			
IM3 (2x20W carrier)	< -153 dBc	< -153 dBc	< -153 dBc			
Input Power	(2x) 500 W	(2x) 500 W	(4x) 250 W			
Diplexed	No					
Lightning Protection	Direct Ground					
Operating Temperature	-40° to +60° C (-40° to +140° F)					

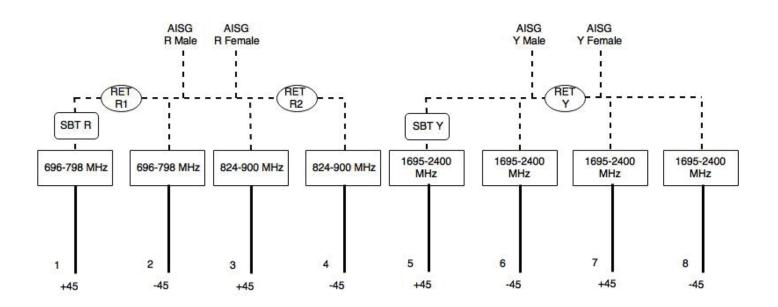






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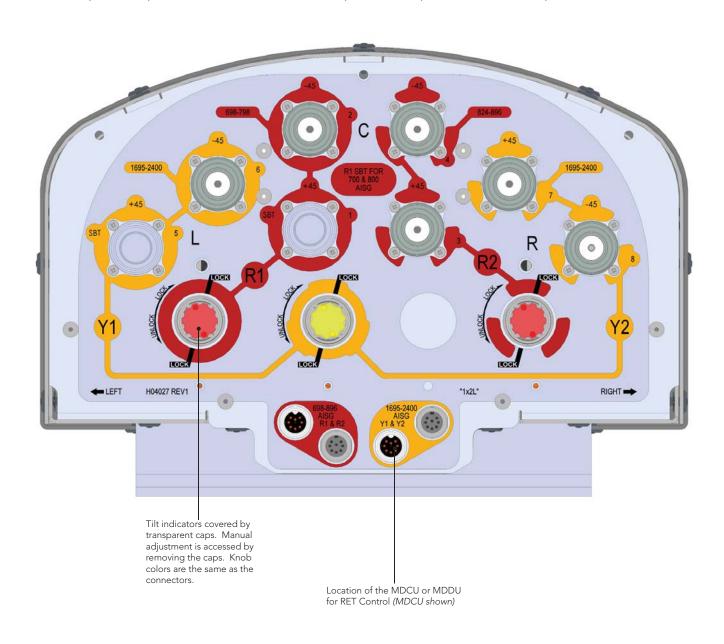
Mecha	anical Cl	naracte	ristics						
Dimensions (Length x Width x Depth)			Depth)	1897 x 350 x 204 mm 74		74.7 x 13.8 x 8.0	in		
	Antenna C	ntenna Only		32.7	kg	72	lbs		
Weight Antenna with & Downtilt Br 36210008		lt Bracket Kit		39.5	kg	87	lbs		
Survival Wind Speed		241	km/hr	150	mph				
Wind Loads Fro		Front	890	N	200	lbf			
(160 km/ł	hr or 100 mp	or 100 mph)		473	N	106	lbf		
Electri	ical Dow	ntilt C	ontrol						
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 counterclockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna.							
Remote Electrical Tilt (RET) Control			ntrol	For RET control, the transparent caps must be in place and locked. The tilt angle indicators always remain visible.  Do not remove the transparent cap(s) from the antenna.					
RET A	ctuator								
Input Voltage				10-30 Vdc					
Power		Idle State		0.5 W (Maximum)					
Consumpt	otion	tion Normal Conditions		10.0 W (Maximum)					
Protocol				3GPP/AISG v2.0 (Single RET)					
RET Interface				(4x) 8-pin DIN Female					
Field Replaceable Unit		No							



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. Modifications to product may result in changes to this document without notice.



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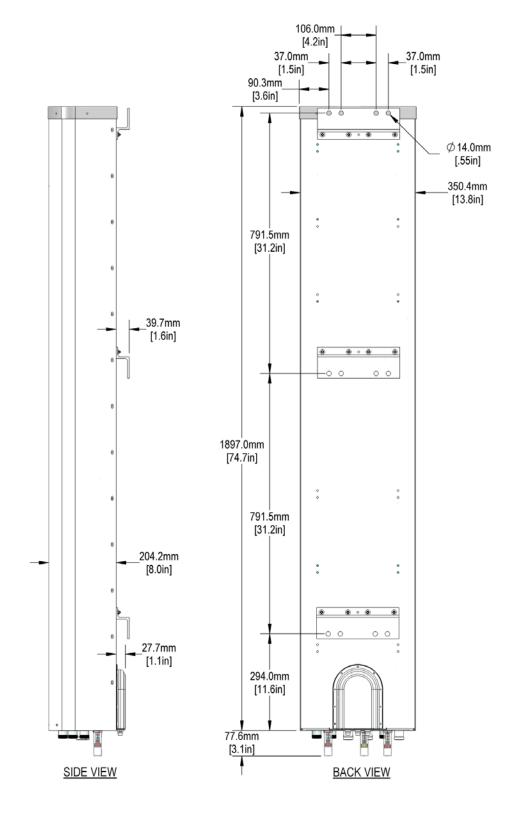




In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.



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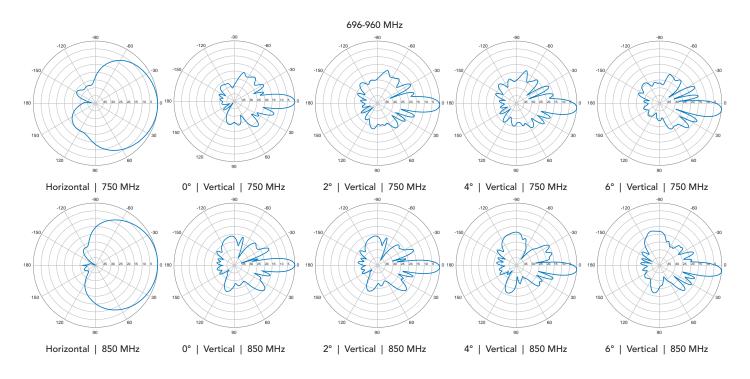


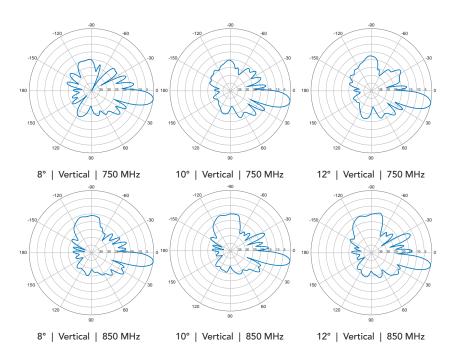
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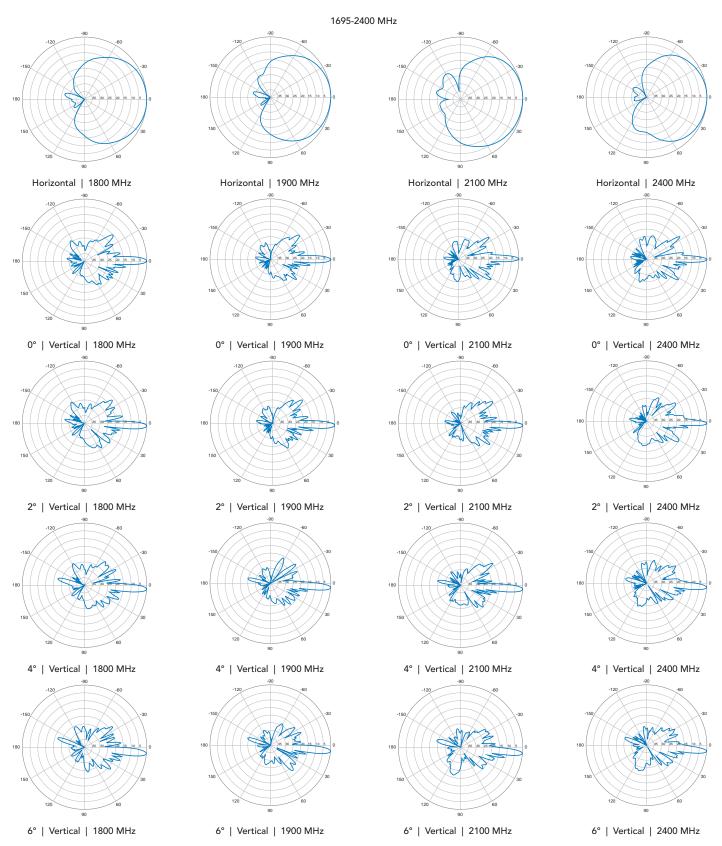




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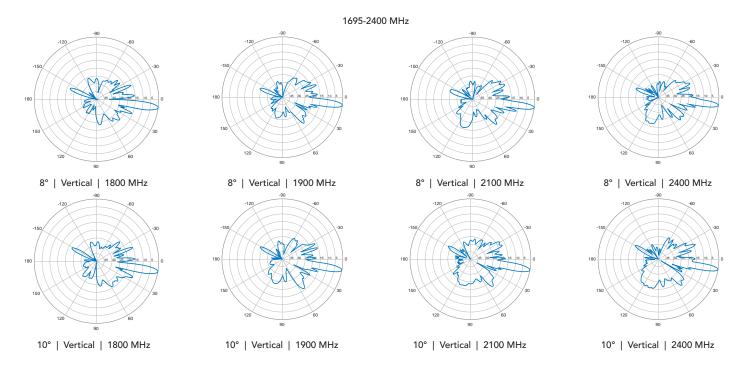
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# Mounting Kit Ordering Options All mounting bracket kits are ordered separately unless otherwise indicated.

Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight
3-Point Mounting and Downtilt Bracket Kit	36210008		40-115 mm 1.57-4.5 in	6.9 kg 15.2 lbs

#### Configuration Options

This antenna model **cannot** be used with Amphenol's UNICELL 3-sector antenna enclosures.

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