

5980200

Twin Tri-Band | Panel Antenna | (2x) XXX-Pol | 68° / 65° / 65° | 17.5 / 17.2 / 17.3 dBi | Variable Tilt

- Twin Tri-Band, (2x) XXX-Pol, variable tilt, panel antenna with 12 connectors
- Independent tilt on each band 0-10° / 0-10° / 0-12° / 0-12° / 0-12° / 0-12°
- Available as a Manual or Remote Electrical Tilt Antenna, AISG v1.1 or 3GPP/AISG v2.0
- Patented internal RET actuator adds no additional length to the antenna (field replaceable)
- Can be ordered with a Multi-Device Dual Unit (MDDU) with two separate inputs for independent control of each band

**LTE 800 Ready**



Ordering Options	Model Number
Manual Electrical Tilt	5980200
Remote Electrical Tilt AISG v1.1	5980200A
Remote Electrical Tilt 3GPP/AISG v2.0	5980200G
Remote Electrical Tilt fitted with MDDU-G20G22	5980200DG

Other accessories are ordered separately.





Electrical Characteristics		(2x) 790-960 MHz		(2x) 1710-2170 MHz		(2x) 1710-2170 MHz	
Frequency Bands (MHz)		790...880	880...960	1710...1880	1900...2170	1710...1880	1900...2170
Polarisation		(2x) ±45°		(2x) ±45°		(2x) ±45°	
Horizontal Beamwidth		75°	68°	65°	62°	65°	62°
Vertical Beamwidth		7°	7°	7°	7°	7°	7°
Gain (dBi)	0° Tilt	17.2	17.5	16.5...16.7	16.7...17.2	16.5...16.9	16.9...17.3
	6° Tilt	---	---	16.3...16.5	16.5...17.0	16.4...16.7	16.7...17.2
	12° Tilt	---	---	16.0...16.3	16.3...16.5	16.3...16.5	16.5...17.0
Electrical Downtilt		0-10°		0-12°		0-12°	
Impedance		50Ω		50Ω		50Ω	
VSWR		< 1.5		< 1.4		< 1.4	
Upper Sidelobe Suppression (typical)		18 dB		18 dB		18 dB	
Front-to-Back Ratio		> 30 dB		> 30 dB		> 30 dB	
Isolation Between Bands (inter-band; typical)		45 dB		45 dB		45 dB	
Isolation Between Ports (intra-band)	0°-2° Tilt	> 28 dB		> 28 dB		> 28 dB	
	All Other Tilts	> 30 dB		> 30 dB		> 30 dB	
Isolation Between Left and Right Arrays		> 29 dB		> 30 dB		> 30 dB	
IM3 (2x20W carrier)		< -110 dBm		< -110 dBm		< -110 dBm	
Input Power		200 W		160 W		160 W	
Total Number of Connectors		Antenna has 12 connectors located at the bottom					
Connectors Per Band, Type, Location	790-960 MHz	4 Connectors / 7/16-DIN Female / Long Neck / Bottom / Red and Green Rings					
	1710-2170 MHz	4 Connectors / 7/16-DIN Female / Long Neck / Bottom / White Rings (top array)					
	1710-2170 MHz	4 Connectors / 7/16-DIN Female / Long Neck / Bottom / Blue Rings (bottom array)					
Operating Temperature		-40° to +60° C (-40° to +140° F)					
Mechanical Characteristics							
Shroud Material / Colour		Outdoor Plastic / Grey RAL7035					
Dimensions (Length x Width x Depth)		2700 x 442 x 152 mm			106.3 x 17.4 x 6.0 in		
Depth with Rear Connectors		219 mm			8.6 in		
Weight without Mounting Brackets		56 kg			123.5 lbs		
Operational Wind Speed		160 km/hr			100 mph		
Survival Wind Speed		200 km/hr			124 mph		
Wind Loads (160 km/hr or 100 mph) EN1991-4-1	Front	1512 N			339.9 lbf		
	Lateral	512 N			115.1 lbf		
	Rear	1418 N			318.8 lbf		



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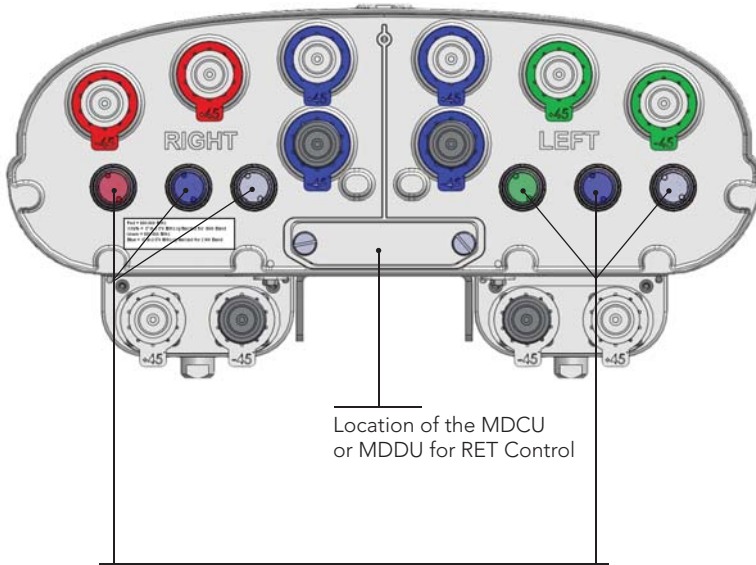
Packaging				
Packaging Dimensions (Height x Width x Depth)	2930 x 550 x 280 mm		115.4 x 21.7 x 11.0 in	
Packaging Weight	70 kg		154.3 lbs	
Environmental Characteristics				
Environmental	ETS 300 019			
RoHS Compliant	Yes			
Electrical Downtilt Control				
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).				
Manual Electrical Tilt (MET) Control	A coloured knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob colour is identical to the corresponding connector ring colour. 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 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).			
RET Actuator	Select one of the following RET actuators when ordering this antenna.			
	Multi-Device Control Unit (MDCU)	The MDCU 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. Refer to ordering options.		
	Multi-Device Dual Unit (MDDU)	The 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.		
Important Installation Instructions	 <p>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.</p> <p>Do not install the antenna with the connectors facing upward.</p>			
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	0900181/00		48-115 mm 1.9-4.5 in	3.4 kg 7.5 lbs
2-Point Mounting Bracket Kit	0900182/00		70-150 mm 2.8-5.9 in	3.9 kg 8.6 lbs
Kit to Add Mechanical Tilt (0°-10°) to Above Brackets (optional)	0900396/00		---	2.3 kg 5.1 lbs

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Bottom View of Antenna

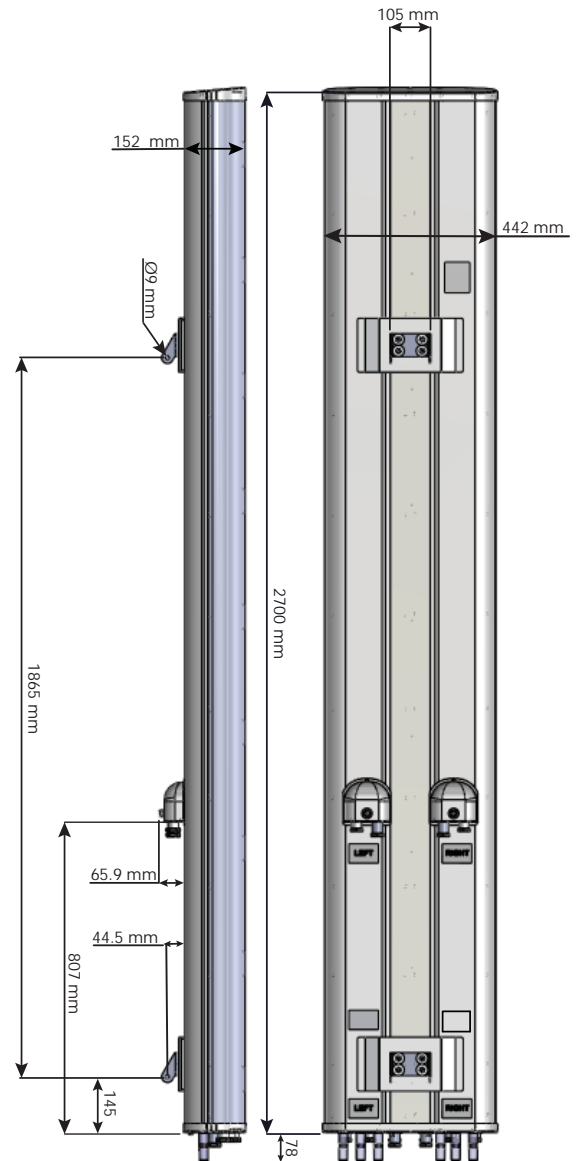


Tilt indicators covered by transparent caps.  
Manual adjustment is accessed by removing the caps.  
Knob colours are the same as the connectors.



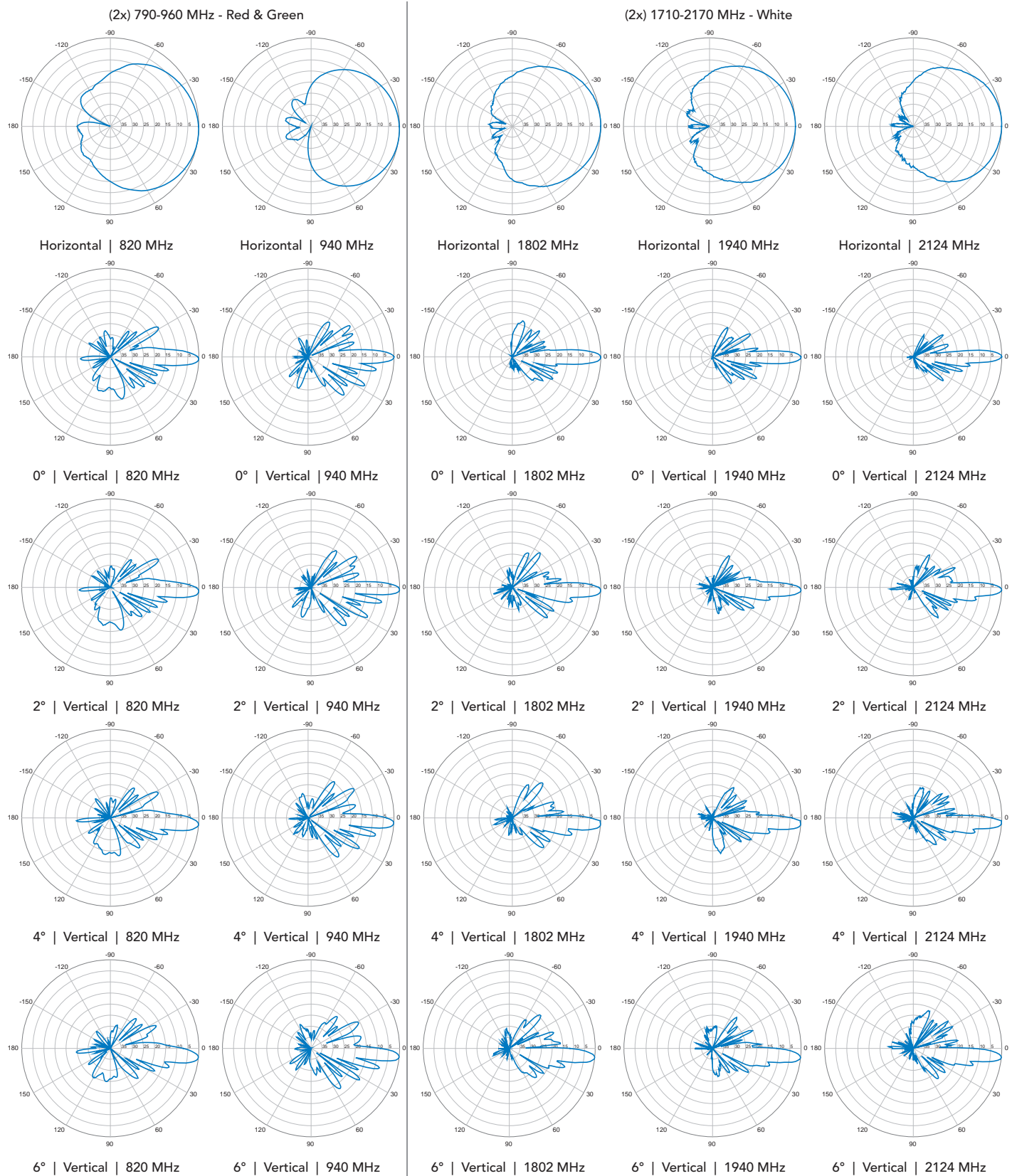
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Dimensions



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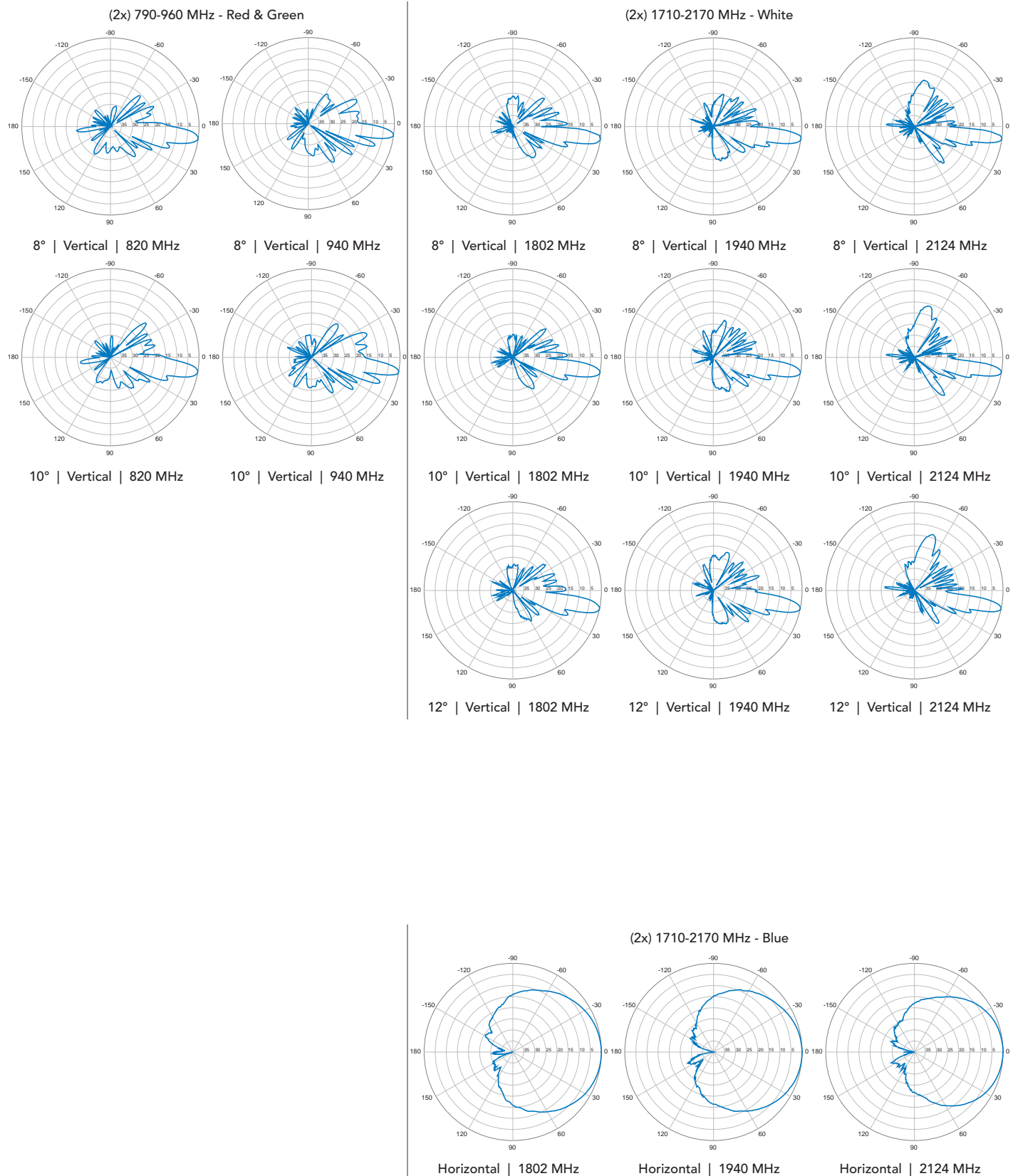
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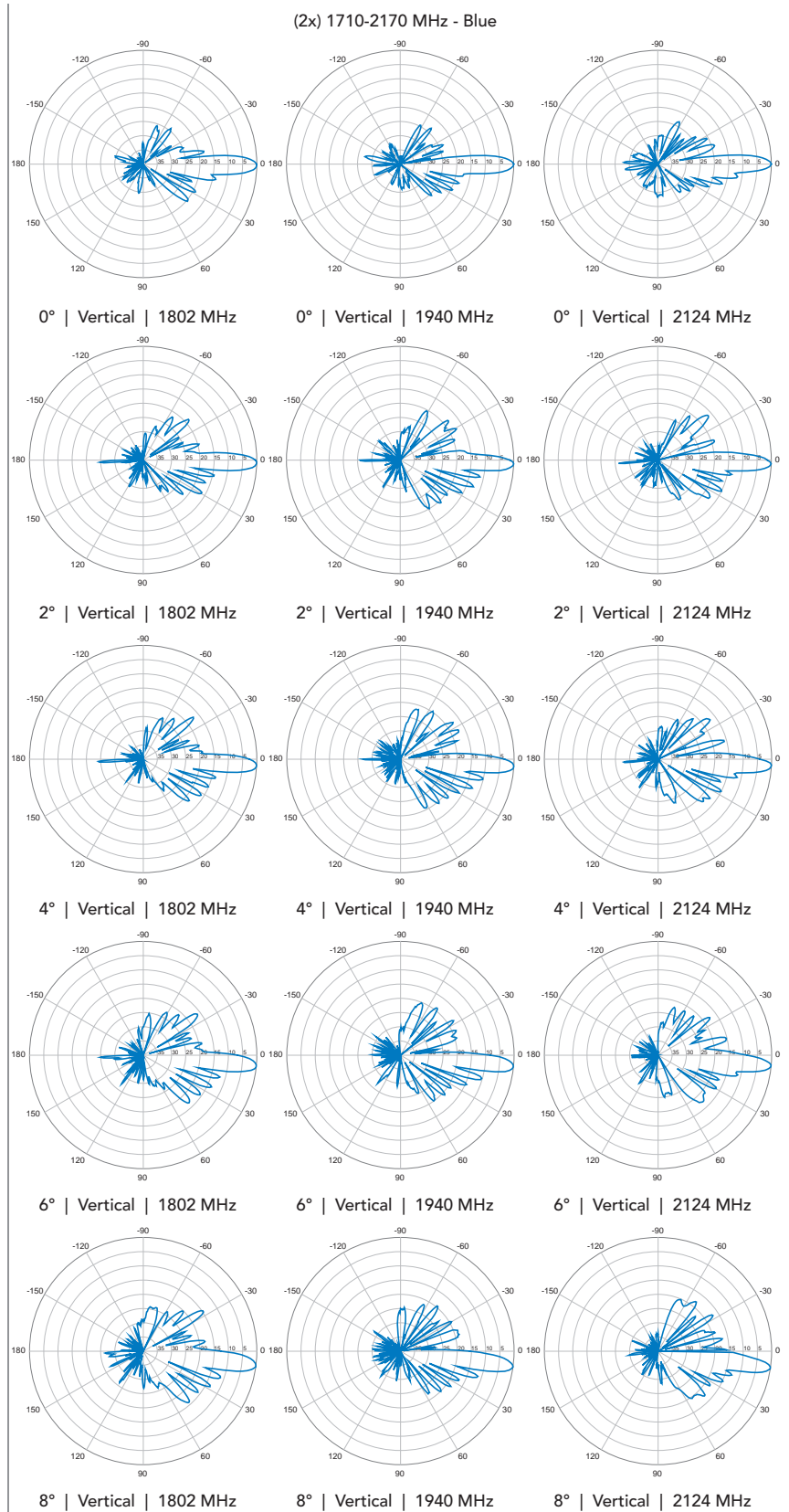
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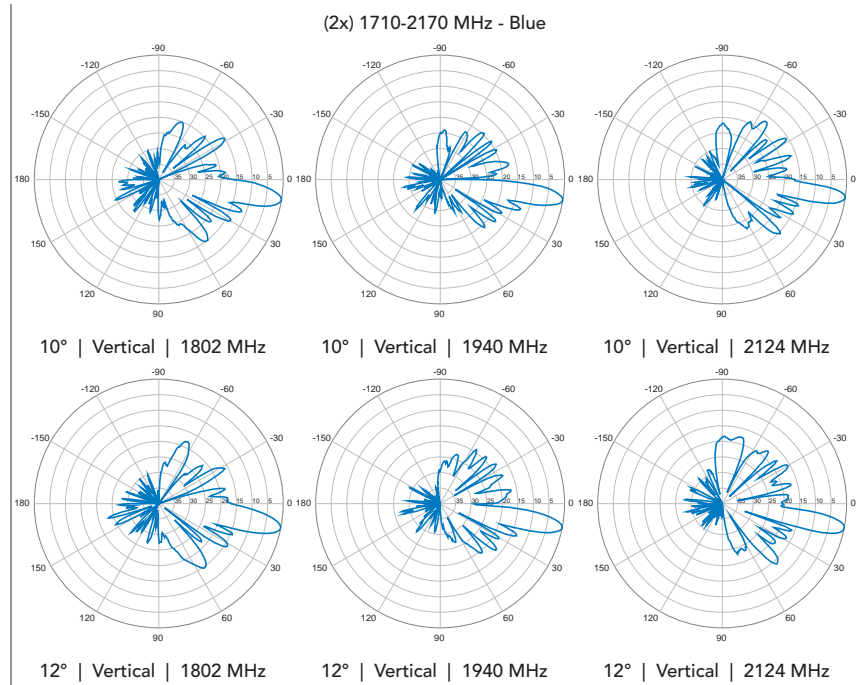
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