

5920200-lv

Twin Band | Panel Antenna | (2x) X-Pol | 68° / 68° | 17.5 / 17.5 dBi | Variable Tilt | Lightweight

LTE 800 Ready

- Twin band, (2x) X-Pol, variable tilt, panel antenna with 4 connectors
- Independent tilt on each band 0-10° / 0-10°
- Lightweight TwinLine™ platform, with optimal profile for low wind load
- 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

Ordering Options	Model Number
Manual Electrical Tilt	5920200-lv
Remote Electrical Tilt AISG v1.1	5920200A-lv
Remote Electrical Tilt 3GPP/AISG v2.0	5920200G-lv
Remote Electrical Tilt fitted with MDDU-G20G22	5920200DG-lv

Other accessories are ordered separately.

Electrical Characteristics	(2x) 790-960 MHz	
Frequency Bands (MHz)	790...880...960	
Polarisation	(2x) ±45°	
Horizontal Beamwidth	75°...68°...63°	
Vertical Beamwidth	7.3°	
Gain (dBi)	0° Tilt	16.5...17.0...17.5
	5° Tilt	16.5...17.0...17.5
	10° Tilt	16.4...16.9...17.4
Electrical Downtilt	0-10°	
Impedance	50Ω	
VSWR	< 1.5	
Upper Sidelobe Suppression (typical)	18 dB	
Front-to-Back Ratio (±30°)	> 25 dB	
Isolation Between Ports (intra-band)	> 28 dB	
Isolation Between Bands (inter-band)	> 28 dB	
IM3 (2x20W carrier)	< -110 dBm	
Input Power	200 W	
Max Power Handling Per Input (Peak)	400 W	
Total Number of Connectors	Antenna has 4 connectors located at the bottom	
Connectors Per Band, Type, Location	790-960 MHz	2 Connectors / 7/16-DIN Female / Long Neck / Bottom / Red Rings
	790-960 MHz	2 Connectors / 7/16-DIN Female / Long Neck / Bottom / Green Rings
Operating Temperature	-40° to +60° C (-40° to +140° F)	





Mechanical Characteristics		Outdoor Fiberglass, Grey RAL7035	
Shroud Material / Colour	Outdoor Fiberglass, Grey RAL7035		
Dimensions (Length x Width x Depth)	2683 x 432 x 153 mm	105.6 x 17.0 x 6.0 in	
Weight without Mounting Brackets	37 kg	81.6 lbs	
Operational Wind Speed	160 km/hr	100 mph	
Survival Wind Speed	200 km/hr	124 mph	
Wind Loads (150 km/hr or 93 mph) EN1991-4-1	Front	990 N	222.6 lbf
	Lateral	555 N	124.8 lbf
	Rear	920 N	206.8 lbf



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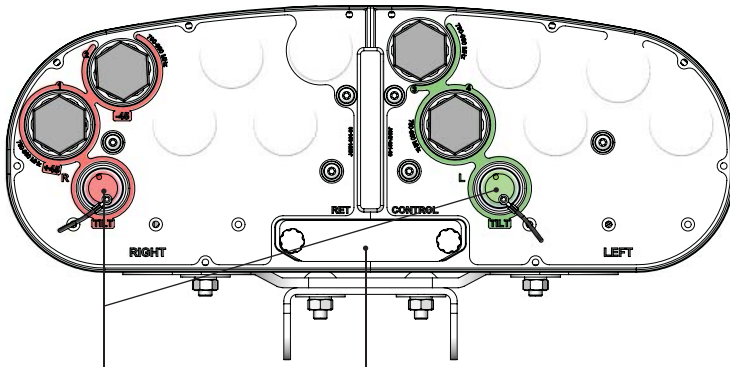
Packaging				
Packaging Dimensions (Height x Width x Depth)	2930 x 550 x 280 mm		115.4 x 21.7 x 11.0 in	
Packaging Weight (Including 0900181/00)	51 kg		112.4 lbs	
Environmental Characteristics				
Environmental	ETS 300 019			
RoHS Compliant	Yes			
Electrical Downtilt Control				
Electrical downtilt for 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



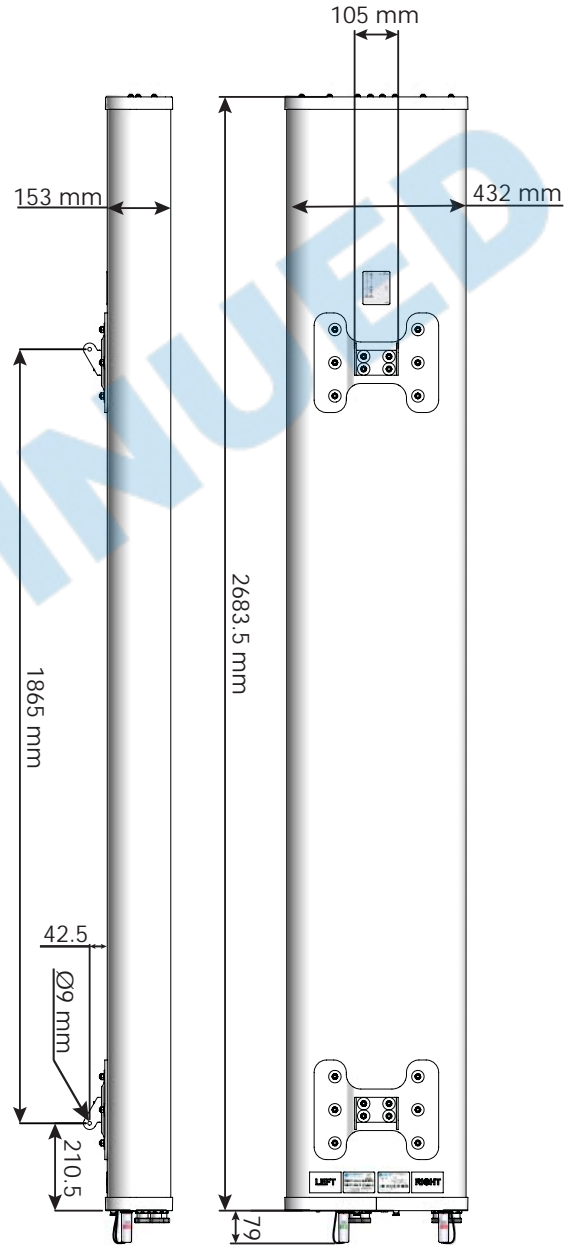
Location of the MDCU or MDDU for RET Control

Tilt indicators covered by transparent caps.
Manual adjustment is accessed by removing the caps.
Knob colours 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

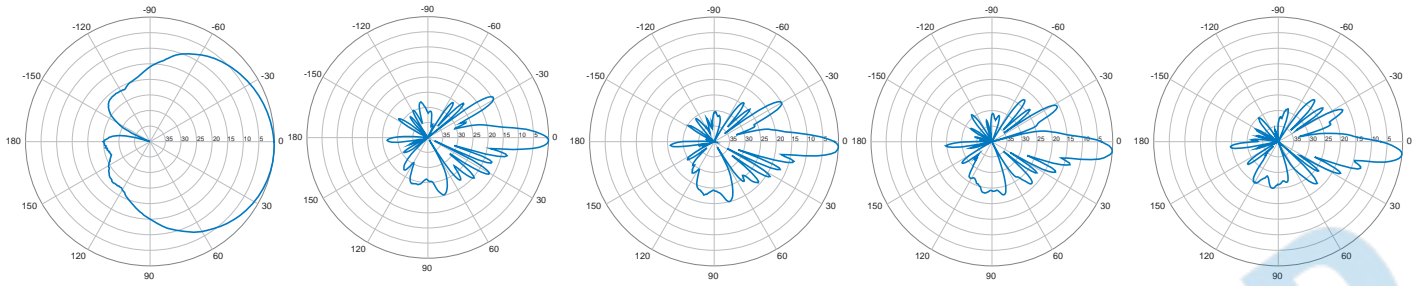


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(2x) 790-960 MHz



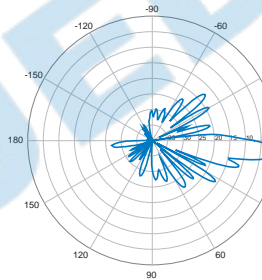
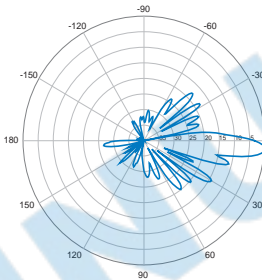
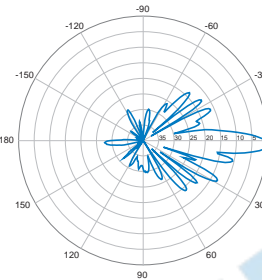
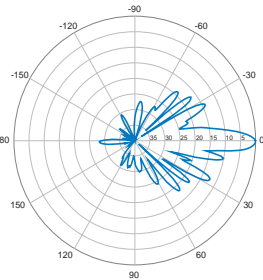
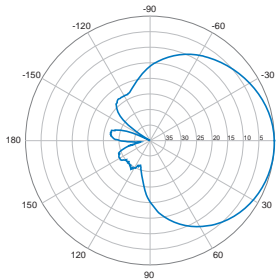
Horizontal | 820 MHz

0° | Vertical | 820 MHz

2° | Vertical | 820 MHz

4° | Vertical | 820 MHz

6° | Vertical | 820 MHz



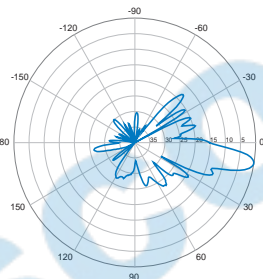
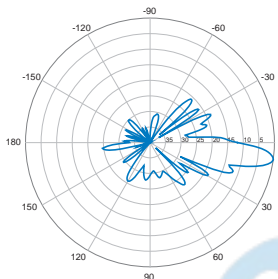
Horizontal | 920 MHz

0° | Vertical | 920 MHz

2° | Vertical | 920 MHz

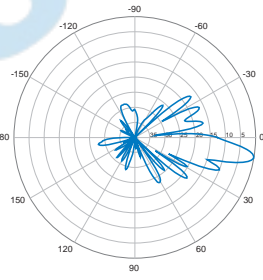
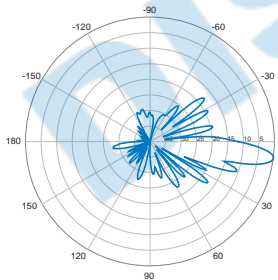
4° | Vertical | 920 MHz

6° | Vertical | 920 MHz



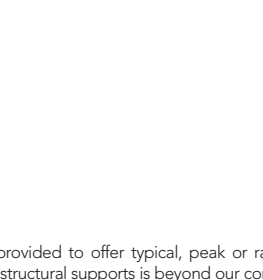
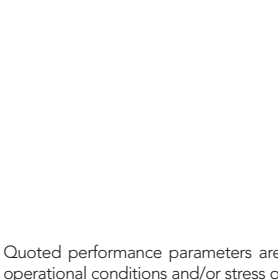
8° | Vertical | 820 MHz

10° | Vertical | 820 MHz



8° | Vertical | 920 MHz

10° | Vertical | 920 MHz



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