

JAYBEAM Wireless

Tri Band | Cylindrical Sector Antenna | XXX-Pol | 66° / 67° / 65° | 17.5 / 18.2 / 18.6 dBi | Variable Tilt

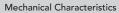
- Tri band, XXX-Pol, variable tilt, cylindrical base-mounted sector antenna with 6 connectors
- Independent tilt on each band 0-10° / 0-10° / 0-10°
- 350 mm diameter
- MET and RET versions, AISG v1.1 or 3GPP/AISG v2.0
- Service area under the antenna



LTE 800 & 26	500 Ready
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Ordering Options	Model Number
Manual Electrical Tilt	6880220-K03
Remote Electrical Tilt AISG v1.1	6880220A-K03
Remote Electrical Tilt 3GPP/AISG v2.0	6880220G-K03

Other accessories are	ordered separately	.						
Electrical Characteris	790-960 MHz	1710-2170 MHz		1710-2690 MHz				
Frequency Bands (MHz)		790880960	17101880	19002170	17101880	19002170	25002690	
Polarisation		±45°	±45°		±45°			
Horizontal Beamwidth		66° (±6°)	67° (±3°)	67° (±3°)	67° (±3°)	67° (±3°)	60° (±3°)	
Vertical Beamwidth		7.3°	5.5°	5.5°	5.5°	5.5°	4.0°	
	Tilt 0°	16.517.017.5	17.818.2	17.617.9	17.617.9	17.617.9	18.318.6	
Gain (dBi)	Tilt 5°	16.517.017.5	17.718.0	17.517.7	17.517.7	17.517.7	18.018.2	
	Tilt 10°	16.416.917.4	17.617.8	17.517.6	17.517.6	17.517.6	17.717.8	
Electrical Downtilt		0-10° 0-10° 0-10°		0-10°				
Impedance		50Ω	50	Ω	50Ω			
VSWR		< 1.5	<	1.5	< 1.5			
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) > 30 dB > 30 dB) dB	> 30 dB					
Isolation Between Po	rts (intra-band)	> 30 dB	dB > 30 dB > 30 dB					
IM3 (2x20W carrier)	M3 (2x20W carrier) < -110 dBm		< -110 dBm		< -110 dBm			
Input Power	t Power 200 W 160 W) W	160 W				
Total Number of Conn	onnectors Antenna has 6 connectors located at the bottom							
	790-960 MHz	2 Connectors / 7/16-DIN Female Long Neck / Bottom / Red Rings						
Connectors Per Band, Type, Location	1/10-21/0 MHz / / (onnectors / //16-1)[N] Female Long Neck		ong Neck / B	Bottom / Blue Rings				
24.14, 1,55, 20041011	1710-2690 MHz	2 Connectors / 7/16-DIN Female Ultra Long Neck / Bottom / Yellow Rings					w Rings	
Operating Temperatu	ıre		-40°	° to +60° C (-4	0° to +140° F	=)		
Machanical Characte	ristics							



The CylLine™ system comes as an antenna and a service area section acting as an installation mast. The cylindrical shroud covers the whole antenna, excepting for the rear of the antenna where the aluminium structure profile is apparent. The service area, mounted under the antenna, is closed by a dismountable shroud in order to give access to the connectors and to the tilt indicators for tuning. A TMA may be installed in the service area.

It is mandatory to install the antenna with the provided service area.

Shroud Material / Colour		Outdoor Plastic, Grey RAL7035				
Dimensions (Height x Diameter)		3724 x Ø350	mm	146.6 x Ø13.8	in	
	Antenna	64	kg	141.1	lbs	
Weight	Service Area	37	kg	81.6	lbs	
	Total	101	kg	222.7	lbs	
Operational Wi	ind Speed	160	km/hr	100	mph	
Survival Wind Speed		200	km/hr	124	mph	
Wind Loads (160 km/hr or 100 mph)		1160	N	261	lbf	









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Environmental Characteristics						
Environmental	ETS 300 019					
Electrical Downtilt Control						
Electrical downtilt for each band can be control	olled 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 counterclockwise. 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 module (MDCU) totally inserted at the bottom of the antenna. One single module controls individually the tilt of each band (no need of daisy chain cables between the bands). This module does not add any additional length at the bottom of the antenna. For RET control, the transparent cap must be in place and locked. The tilt angle indicator always remains visible and the antenna still has manual tilt control (manual override). An antenna ordered in a RET version is delivered fitted with its factory preset MDCU module operational with no further action needed.					
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 6880220A-K03					
	Part Number for 3GPP/AISG v2.0 protocol: MDCU-G0000 One unit installed in 6880220G-K03					
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.					
List of Parts						
Parts Supply Includes	One antenna: 6880220, or 6880220A, or 6880220G					
	One service area, length 1m					
	All screws, nuts and washers for assembly					
Mounting	Mounting Flange Interface					
The flange at the base of the service area is the mounting base for the whole system. This flange (Ø460 mm OD / thickness 10 mm) six slots, each 40° long, on a bolt circle diameter of 382 mm. These slots are used to tune the azimuth of the antenna. Mounting must be achieved with one bolt per slot (total six bolts M10, provided).						
Installation of Cables	Service Area (Opened Shroud)					
The shroud of the service area is left open on 14 cm at the bottom side, in order to let the cables in. It is recommended to use 1/2" Super-Flexible coaxial jumpers, in order to make their installation in the service area easier, due to their minimal bending radius (see installation guide).						



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Bottom View of Antenna Description of the MDCU for RET Control

Tilt indicators covered by transparent caps.

Manual adjustment is accessed by removing the caps.

Knob colors are the same as the connectors.

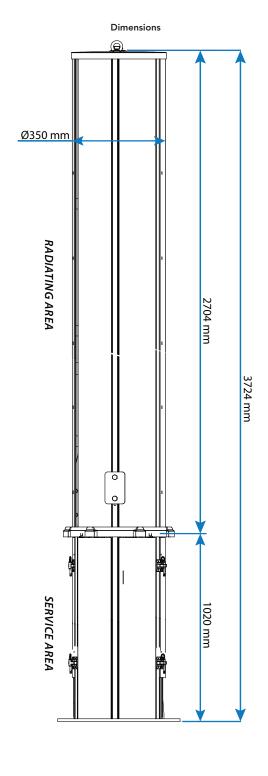
Red: 790-960 MHz

Blue: 1710-2170 MHz; optimised 2100 band

Yellow: 1710-2690 MHz

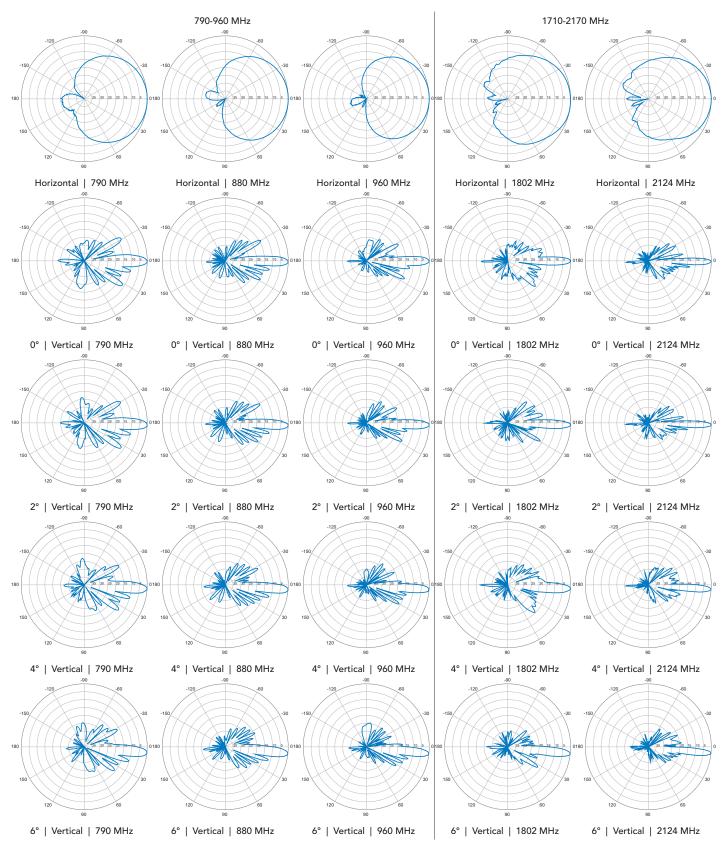


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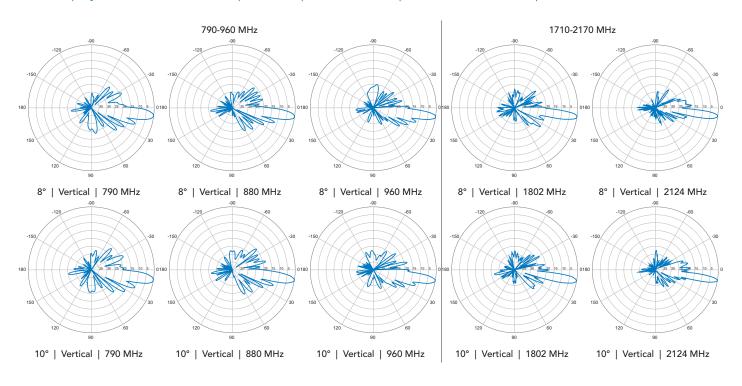


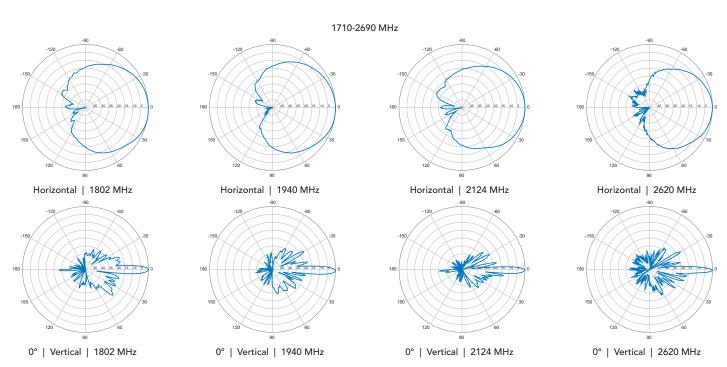
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