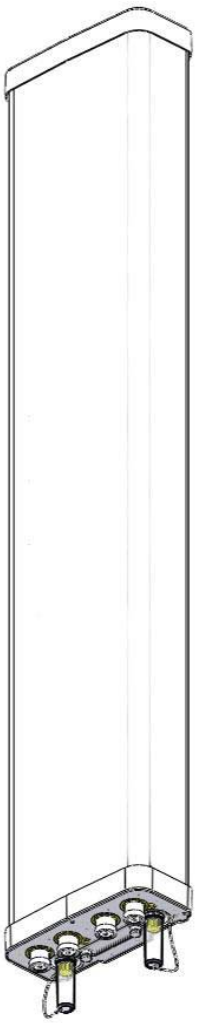
6175100

Twin Band | Panel Antenna | (2x) X-Pol | 65° / 65° | 15.5 / 15.5 dBi | Variable Tilt

- Twin ultrawide band, (2x) X-Pol, variable tilt, panel antenna with 4 connectors
- Independent tilt on each band 0-10° / 0-10°
- 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)



Ordering Options	Model Number
Manual Electrical Tilt	6175100
Remote Electrical Tilt AISG v1.1	6175100A
Remote Electrical Tilt 3GPP/AISG v2.0	6175100G
Other accessories are ordered separately.	

Electrical Characteristics	(2x) 1710-2690 MHz		
Frequency Bands	1710-1880 MHz	1920-2170 MHz	2200-2690 MHz
Polarisation	(2x) ±45°		
Horizontal Beamwidth (±5°)	65°	67°	64°
Vertical Beamwidth (±2°)	14°	12°	10°
Gain	14.2 ±0.5 dBi	14.9 ±0.4 dBi	15.7 ±0.5 dBi
Electrical Downtilt	0-10°		
Impedance	50Ω		
VSWR	< 1.5		
Upper Sidelobe Suppression	> 15 dB		
Front-to-Back Ratio	> 25 dB		
Null Fill (first null below main beam; typical)	< 18 dB		
Isolation Between Ports (intra-band)	> 27 dB		
IM3 (2x20W carrier)	< -153 dBc		
Input Power	250 W		
Total Number of Connectors	Antenna has 4 connectors located at the bottom		
Connectors Per Band, Type, Location — Y1 1710-2690 MHz	2 Connectors / 7/16-DIN Female / Long Neck / Bottom		
Connectors Per Band, Type, Location — Y2 1710-2690 MHz	2 Connectors / 7/16-DIN Female / Long Neck / Bottom		
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)		822 x 265 x 114	mm	32.4 x 10.4 x 4.5	in
Weight without Mounting Brackets		9	kg	19.8	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	309	N	69.5	lbf
	Lateral	116	N	26.1	lbf
	Rear	304	N	68.3	lbf

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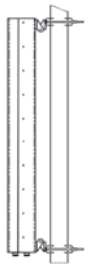
Packaging				
Packaging Dimensions (Height x Width x Depth)	995 x 420 x 247 mm		39.2 x 16.5 x 9.7 in	
Packaging Weight	14 kg		30.9 kg	
Environmental Characteristics				
Environmental	ETS 300 019			
RoHS Compliant	Yes			
Electrical Downtilt Control				
Electrical downtilt for each band can be controlled 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 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).			
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 6175100A	
	Part Number for 3GPP/AISG v2.0 protocol:	MDCU-G0000	One unit installed in 6175100G	
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.			
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 (included)	0900181/00		48-115 mm 1.9-4.5 in	3.4 kg 7.5 lbs
Kit to Add Mechanical Downtilt [0°-10°] (included)	0900397/00		---	3.0 kg 6.6 lbs

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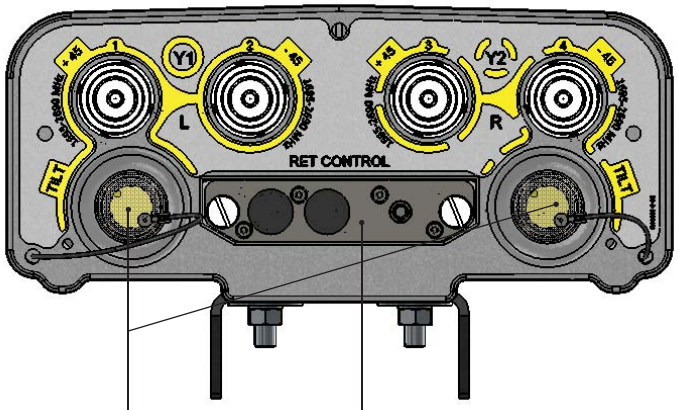
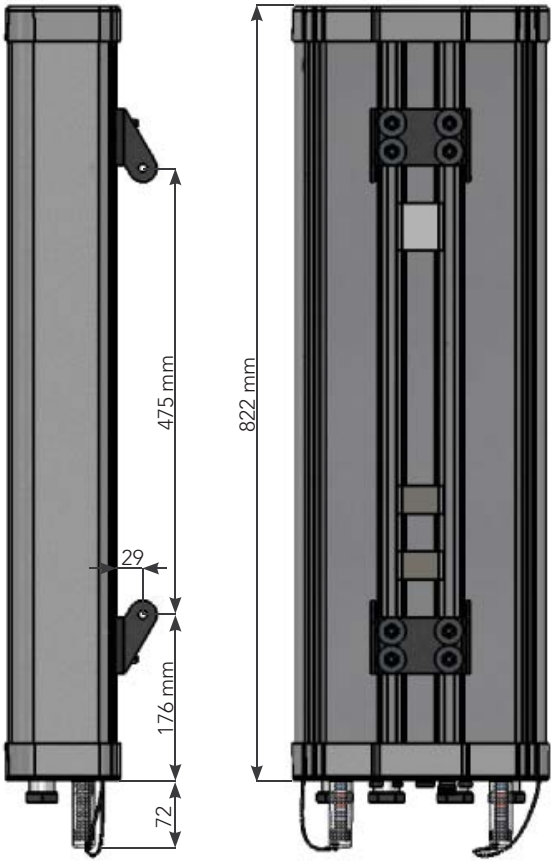
Bottom View of Antenna

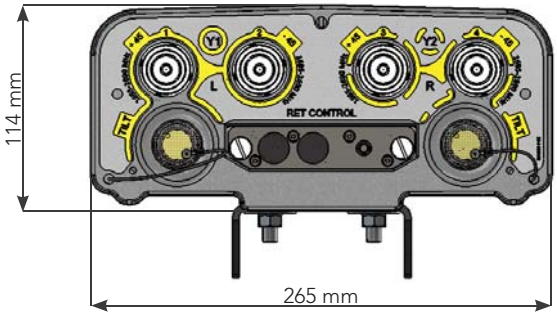


Location of the MDCU
for RET Control

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

Dimensions





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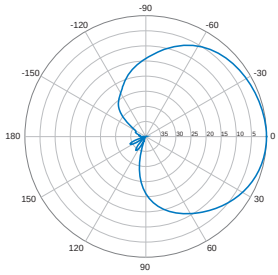
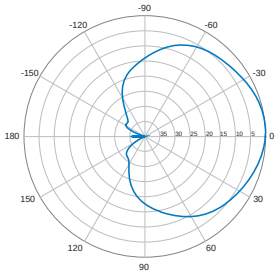
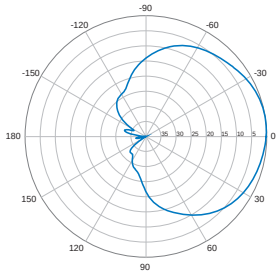
1710-1880 MHz



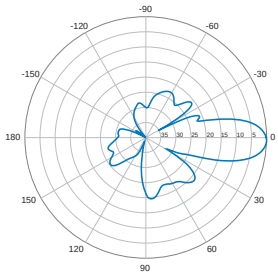
1920-2170 MHz



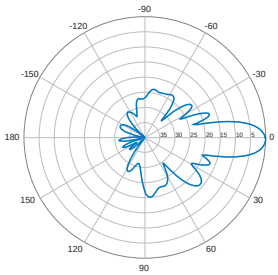
2200-2690 MHz



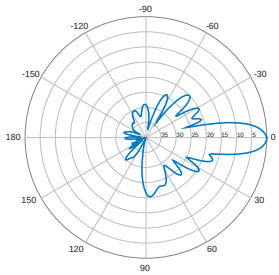
0° | Horizontal | 1790 MHz



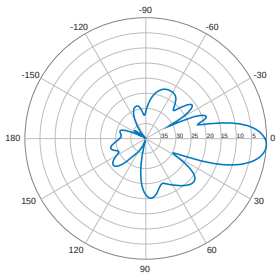
0° | Horizontal | 2050 MHz



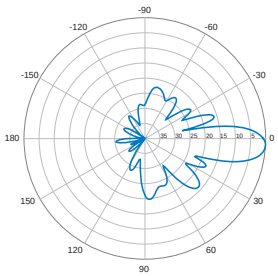
0° | Horizontal | 2300 MHz



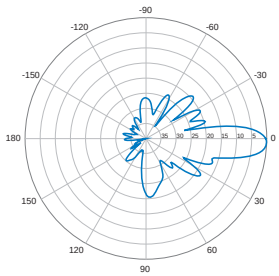
0° | Vertical | 1790 MHz



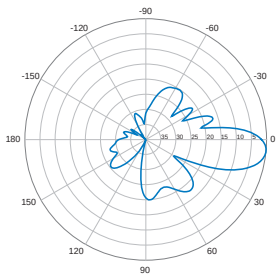
0° | Vertical | 2050 MHz



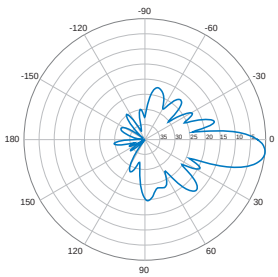
0° | Vertical | 2300 MHz



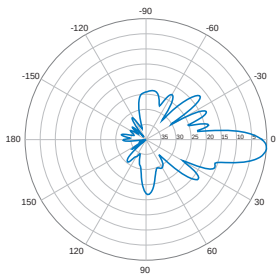
2° | Vertical | 1790 MHz



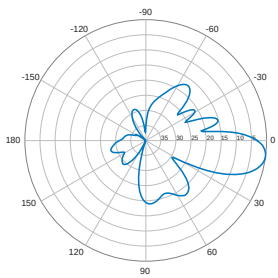
2° | Vertical | 2050 MHz



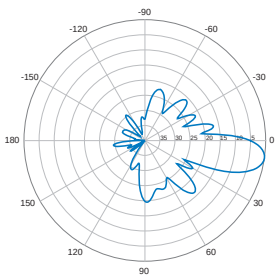
2° | Vertical | 2300 MHz



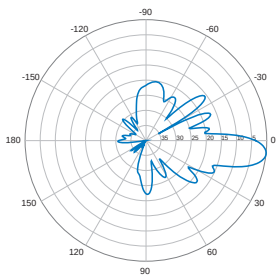
4° | Vertical | 1790 MHz



4° | Vertical | 2050 MHz



4° | Vertical | 2300 MHz



6° | Vertical | 1790 MHz

6° | Vertical | 2050 MHz

6° | Vertical | 2300 MHz

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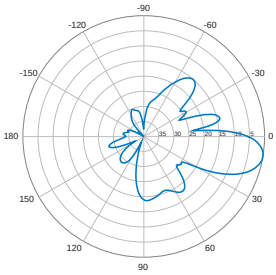
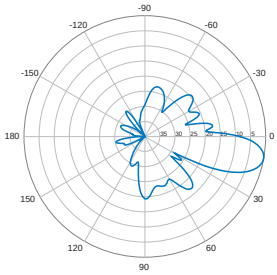
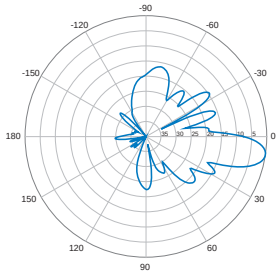


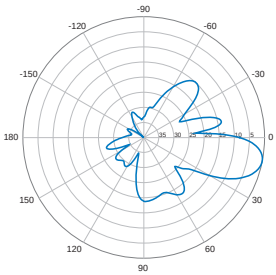
1920-2170 MHz



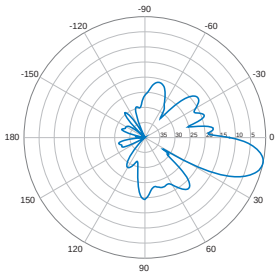
2200-2690 MHz



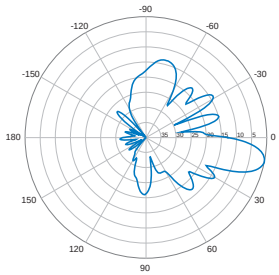
8° | Vertical | 1790 MHz



8° | Vertical | 2050 MHz



8° | Vertical | 2300 MHz



10° | Vertical | 1790 MHz

10° | Vertical | 2050 MHz

10° | Vertical | 2300 MHz

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