

5820200

5820200A 5820200G

Xpol | 65° Az | 17.5 dBi | 0-10° | 2688 x 253 x 147 mm



- Single band antenna, dual polarisation, 2 connectors
- Variable electrical tilt 0-10°
- SlimLine profile for low wind load
- MET and RET versions, AISG1.1 or 3GPP/AISG2.0
- RET module fully inserted inside the antenna (field replaceable)

Ordering Options	Model Number
Manual Electrical Tilt Antenna	5820200
Remote Electrical Tilt Antenna AISG1.1	5820200A
Remote Electrical Tilt Antenna 3GPP/AISG2.0 with an MDCU RET Actuator	5820200G

Access Ports Description (Connectors)
 The antenna has 2 connectors located at the bottom face. See image on the following page.

R1	Low Band	790-960 MHz Ports	(2x) 7/16-DIN Female Long Neck
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Electrical Characteristics	R1	
Frequency Bands (MHz)	790...880...960	
Gain (dBi)	Tilt 0°	16.5...17.0...17.5
	Tilt 5°	16.5...17.0...17.5
	Tilt 10°	16.4...16.9...17.4
Input Impedance	50 ohms	
VSWR	< 1.5	
Polarisation	±45°	
Horizontal Beamwidth (-3 dB)	72°...68°...65°	
Vertical Beamwidth (-3 dB)	7°	
Electrical Downtilt Range	0-10°	
Isolation Between Ports	> 25...30...30 dB	
Upper Sidelobe Rejection (20° sector above main beam)	18 dB Typical	
Front-to-Back Ratio	> 30 dB	
Maximum Power (Per Port)	200 W	
Intermodulation 3rd Order for 2x20W Carriers	< -110 dBm	

Electrical Downtilt Control	
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 Multi-Device Control Unit (MDCU) 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 Module Part Number (one per antenna)	MDCU-A0000 for AISG1.1 protocol (one unit included in 5820200A) MDCU-G0000 for 3GPP/AISG2.0 protocol (one unit included in 5820200G)

Environmental	
Operating Temperature Range	-40° C to +60° C
Environmental	ETS 300 019
RoHS Compliant	Yes



Several patents pending regarding this product. 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. Improvements to products may be made without notice.

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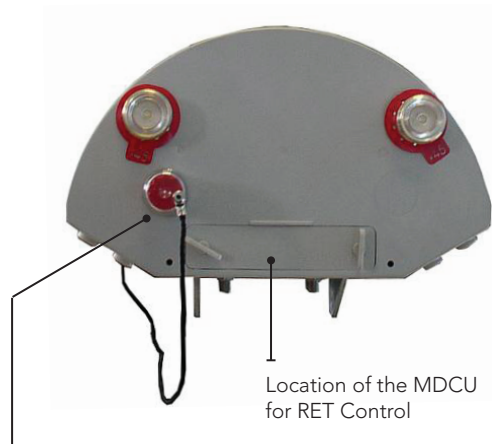
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Mechanical Characteristics		
Dimensions (see drawing)	Height: 2688 mm Width: 253 mm Depth: 147 mm	
Weight	17 kg (excluding mounting accessory)	
Shroud	Outdoor Plastic, Grey RAL7035	
Wind Speed	Operational: 160 km/hr Survival: 200 km/h	
Wind Load at 160 km/h	600 N	
Mounting Kit Options	Part Number	Weight
All mounting bracket kits are ordered separately unless otherwise indicated. Select from the options listed below.		
Brackets for pole Ø48 to Ø115 mm (delivered as standard)	0900181/00	3.4 kg
Brackets for pole Ø70 to Ø150 mm (optional)	0900182/00	3.9 kg
Kit to add mechanical tilt to above brackets (optional)	0900397/00	3.0 kg
Wall mounting brackets are available upon request.		

Packaging
Carton Box 2.93 x 0.35 x 0.24 m 0.246 m³ 25 kg

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.

RED 790-960 MHz

Installation

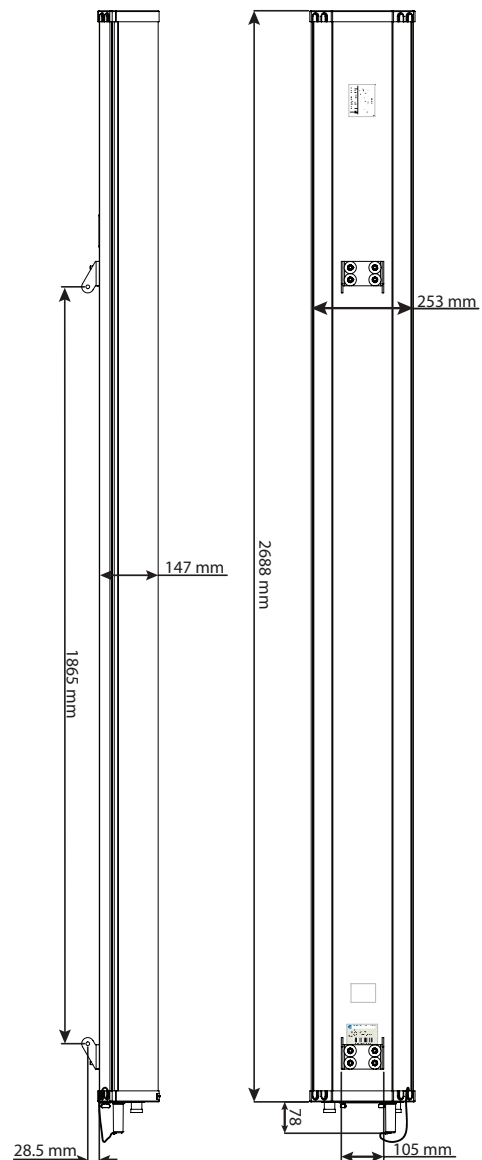


In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.

Always attach the antenna by the two mounting points.

Do not install the antenna with the connectors facing upward.

Dimensions (in mm)



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