

6880300-T

6880300A-T 6880300G-T



XXXpol | 65° Az | 17.4 / 17.7 / 18.3 dBi | 0-10° / 0-10° / 0-10° | 2696 x 305 x 162 mm | with Top Connectors

- Tri band antenna, dual polarisation, 6 connectors
- Independent tilt on each band 0-10° / 0-10° / 0-10°
- · UltraLine platform with multi-array capability
- MET and RET versions, AISG1.1 or 3GPP/AISG2.0
- Single RET module to control all tilt angles, fully inserted inside the antenna (field replaceable)



TOP CONNECTORS

Ordering Options	Model Number
Manual Electrical Tilt Antenna	6880300-T
Remote Electrical Tilt Antenna AISG1.1	6880300A-T
Remote Electrical Tilt Antenna 3GPP/AISG2.0 with an MDCU RET Actuator	6880300G-T
Access Ports Description (Connectors)	

The antenna has 6 colour-coded connectors located at the bottom face. See image on the following page.

R1	Ultra Low Band	698-960 MHz Ports	(2x) 7/16-DIN Female Ultra Long Neck
Y1	Ultra Wide Band	1695-2690 MHz Ports	(2x) 7/16-DIN Female Ultra Long Neck
Va	I Iltra Wida Band	140E 2400 MH= Posts	(2x) 7/14 DIN Female I Iltra Leng Neels

Y2	Ultra Wide Band	1695-2690 MHz Ports	(2x) 7/16-DIN Female Ultra Long Neck

Electrical Chara	cteristics		R1			Y1			Y2	
Frequency Bands	s (MHz)	700	800	900	1800	2100	2600	1800	2100	2600
Gain (dBi)	Tilt 0° Tilt 5° Tilt 10°	15.9 15.9 15.6	16.5 16.4 16.2	17.4 17.3 17.0	17.7 17.7 17.7	17.7 17.7 17.5	17.7 17.7 17.4	17.7 17.7 17.6	18.1 17.9 17.8	18.3 18.1 17.7
Input Impedance	e		50 ohms			50 ohms			50 ohms	,
VSWR			< 1.5			< 1.5			< 1.5	
Polarisation			±45°			±45°			±45°	
Horizontal Beam	width (-3 dB)	73°	67°	67°	65°	70°	74°	65°	65°	65°
Vertical Beamwid	dth (-3 dB)	8.6°	7.5°	6.7°	6.1°	5.3°	4.2°	6.1°	5.3°	4.2°
Electrical Downti	Electrical Downtilt Range 0-10°			0-10°			0-10°			
Inter/Intra Band	Isolation		> 25 dB			> 25 dB			> 28 dB	
Upper Sidelobe (20° sector above			18 dB Typica	I	18 dB Typical		I	18 dB Typical		
Front-to-Back Ra	atio @ 180° ±30°		> 25 dB		> 25 dB		> 25 dB			
Maximum Power	(Per Port)		250 W		200 W		200 W			
Intermodulation 3rd Order for 2x2			< -110 dBm			< -110 dBm			< -110 dBm	

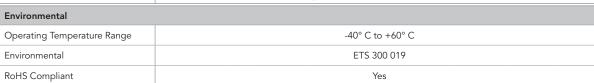


Electrical	Downtilt	Control
Electrical	Downtill	Control

Electrical downtilt for each band of	an 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 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 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	MDCU-A0000 for AISG1.1 protocol (one unit included in 6880300A-T)		
(one per antenna)	MDCU-G0000 for 3GPP/AISG2.0 protocol (one unit included in 6880300G-T)		
Environmental			







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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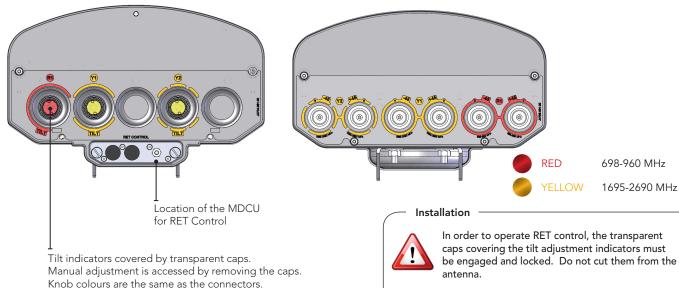
Mechanical Characteristics			
Dimensions (see drawing)	Height: 2696 mm Width: 305 mm Depth: 162 mm		
Weight	28 kg (excluding mounting accessory)		
Shroud	Outdoor Plastic, Grey RAL7035		
Wind Speed	Operational: 160 km/hr Survival: 200 km/h		
Wind load at 150 km/h	Frontal: 1032 N Lateral: 469 N Rear: 1011 N		

Packaging
Carton Box 2.95 x 0.40 x 0.28 m 0.243 m³ 39 kg

Wind load at 150 km/n	Frontal: 1032 N	Lateral: 469 N	Rear: IUIIIN	
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	0900181/00	3.4 kg		
Brackets for pole Ø70 to Ø150 mm (optional)		0900182/00	3.9 kg	
Kit to add mechanical tilt (0°-10°) to above brackets (optional)		0900397/00	3.0 kg	
Wall mounting brackets are available upon reques	st			

Bottom View of Antenna

Top View of Antenna

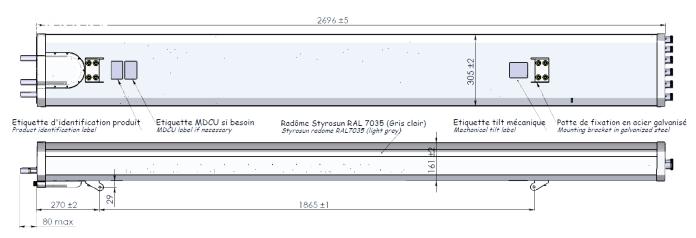


be engaged and locked. Do not cut them from the

Always attach the antenna by the two mounting points.

Do no install the antenna with the connectors facing downward.

Dimensions (in mm)



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