

6177600

6177600A 6177600G 6177600DG

XXXXpol | 65° Az | 17.1 / 17.5 / 17.1 / 17.5 dBi | 0-12° / 0-12° / 0-12° / 0-12° | 1390 x 265 x 114 mm

- Twin dual band antenna, dual polarisation, 8 connectors
- Independent tilt on each band 0-12° / 0-12° | 0-12° / 0-12°
- Ultra compact Quadband system for MIMO applications
- MET and RET versions, AISG1.1 or 3GPP/AISG2.0
- Fully internal RET control based on our patented technologies (field replaceable)

Ordering Options	Model Number
Manual Electrical Tilt Antenna	6177600
Remote Electrical Tilt Antenna AISG1.1	6177600A
Remote Electrical Tilt Antenna 3GPP/AISG2.0 with an MDCU RET Actuator	6177600G
Remote Electrical Tilt Antenna 3GPP/AISG2.0 with an MDDU RET Actuator	6177600DG

Access Ports Description (Connectors)
 This antenna is built with two identical Dual Band Antennas, housed side-by-side in the same shroud. The antenna has 8 colour-coded connectors located at the bottom face. See image on the following page.

B1	B2	Wide Band	1695-2180 MHz Ports	(4x) 4.3-10 Female Long Neck
Y1	Y2	LTE 2600	2490-2690 MHz Ports	(4x) 4.3-10 Female Long Neck

Electrical Characteristics	B1-B2		Y1-Y2
Frequency Bands (MHz)	1800	2100	2600
Gain (dBi)	Tilt 0°	16.8	17.1
	Tilt Mid Value	16.8	17.1
	Tilt Max Value	16.8	17.0
Input Impedance	50 ohms		50 ohms
VSWR	< 1.5		< 1.5
Polarisation	±45°		±45°
Horizontal Beamwidth (-3 dB)	65°	63°	61°
Vertical Beamwidth (-3 dB)	7.0°	6.4°	5.2°
Electrical Downtilt Range	0-12°		0-12°
Inter/Intra Band Isolation	> 30 dB, > 28 dB from 0° to 2° tilt		> 30 dB, > 28 dB from 0° to 2° tilt
Upper Sidelobe Rejection (20° sector above main beam)	18 dB Typical		18 dB Typical
Front-to-Back Ratio	@ 180°	> 30 dB	> 30 dB
	@ 180° ±30°	> 25 dB	> 25 dB
Power Handling Per Input (CW)	200 W		200 W
Maximum Power Per Port (Peak)	250 W		250 W
Intermodulation 3rd Order for 2x20W Carriers	< -110 dBm		< -110 dBm

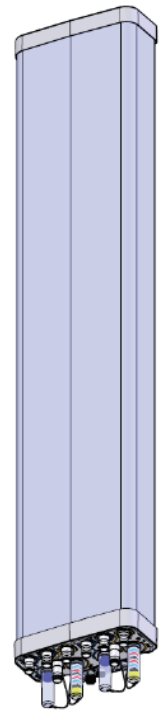
Electrical Downtilt Control
 Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).

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 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-Ready antennas are delivered with the RET Actuator (MDCU or MDDU) already installed and pre-commissioned with all antenna parameters. Every RET device is factory configured and calibrated so the antenna is ready to be used once delivered to the site which means that there is no need for further installation of RET devices or for programming their configuration or for running a calibration process.

RET-Ready Actuator (one per 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. Refer to ordering options.
	Multi-Device Dual Unit (MDDU)	The MDDU allows two separate RET Controllers to independently drive the RETs in antennas with factory embedded motors (for antenna sharing or two technologies). Refer to ordering options.

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.

6177600

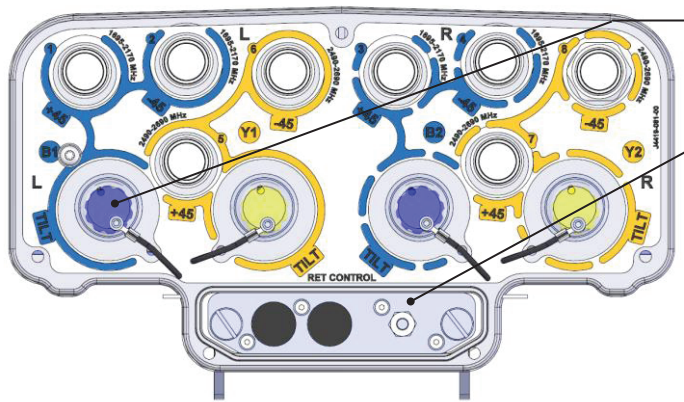
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Mechanical Characteristics			
Dimensions (see drawing)	Height: 1390 mm	Width: 265 mm	Depth: 114 mm
Weight	17 kg (excluding mounting accessory)		
Shroud	Outdoor Fibreglass, Grey RAL7035		
Wind Speed	Operational: 160 km/hr	Survival: 200 km/h	
Wind Load at 150 km/h	Frontal: 420 N	Lateral: 270 N	Rear: 455 N
Mounting Kit Options		Part Number	Weight
All mounting bracket kits are ordered separately unless otherwise indicated.			
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 (0°-10°) to above brackets (optional)		0900397/00	3.0 kg
Wall mounting brackets are available upon request.			

Packaging
Carton Box
1.61 x 0.365 x 0.23 m
0.135 m ³
27 kg
Includes 0900181/00 Kit

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.

Location of the MDCU or MDDU for RET Control

Installation

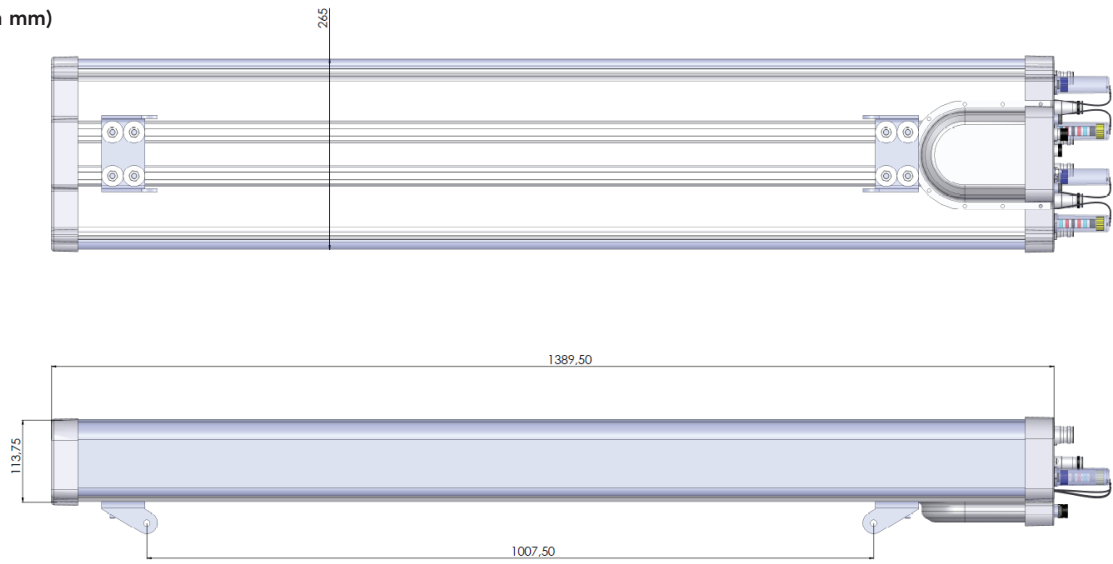
In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.

Always attach the antenna by the two mounting points.

Do not install the antenna with the connectors facing upward.

- BLUE 1695-2180 MHz
- YELLOW 1695-2690 MHz

Dimensions (in mm)



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