

Slimline Series

5860100
5860000 5860000G

XXpol / 65° Az
17.5 / 18 dBi

- Dual Band Antenna, dual polarisation, 4 connectors
- Independent tilt on each band 0°-10° / 0°-10°
- Slimline profile for low wind load
- 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)



Model number options: **5860100** Manual Electrical tilt Antenna
5860000 Remote Electrical Tilt Antenna (AISG1.1)
5860000G Remote Electrical Tilt Antenna (3GPP/AISG2.0)

Access Ports Description (Connectors)			
The Antenna has 4 connectors located at its bottom face and marked with colour rings. See photo next page.			
Low band:	880-960 MHz ports	RED rings	2 x 7-16 DIN female Long Neck
High band:	1710-2170 MHz ports (wide band)	BLUE rings	2 x 7-16 DIN female Long Neck

Electrical Characteristics	Low Band (Red)		High Band (Blue)	
	Frequency Band (MHz)	880...960		1710...1880
Gain (dBi)	tilt 0°	17.0...17.5	17.3...17.6	17.6...18.1
	tilt 5°	17.0...17.5	17.2...17.4	17.4...17.9
	tilt 10°	16.9...17.4	17.2...17.3	17.3...17.7
Input Impedance	50 ohms		50 ohms	
VSWR	<1.4		<1.4	
Polarisation	±45°		±45°	
Horizontal Beamwidth (-3 dB)	65°		65°	64°
Vertical Beamwidth (-3 dB)	7°		6°	6°
Electrical Downtilt range	0° to 10°		0° to 10°	
Isolation between ports	>30 dB		>30 dB	
Isolation between bands	45 dB typ.		45 dB typ.	
Upper Sidelobe Rejection (20° sector above main beam)	18 dB typ.		18 dB typ.	
Front to back ratio	>30 dB		>30 dB	
Maximum Power (per port)	200 W		160 W	
Intermodulation 3rd order for 2 x 20 W carriers	<-110 dBm		<-110 dBm	

Electrical Downtilt Control		
Electrical downtilt can be controlled separately for Low Band and High Band. The two tilt indicators are covered by a removable transparent cap (see photo next page).		
Manual control: A coloured knob at the end of the tilt indicator allows change of the tilt without need for a tool. Knob colour is identical to connector colours as defined above. To access the knob, the cap is removed by turning it counter clockwise. It is re-installed by opposite rotation.		
Remote 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). For RET control, the transparent cap must be in place and locked. This module does not add any additional length at the bottom of the antenna. The tilt angle indicator stays always visible and the antenna still has manual tilt control (manual override).		
RET module part number (one only needed per antenna)	MDCU-A0001 for AISG1.1 protocol (one unit included in 5834000) MDCU-G0001 for 3GPP/AISG2.0 protocol (one unit included in 5834000G)	

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



DT 5341 - Ed 1 - page 1/2 - We reserve the rights to modify our products without prior notice - Several patents pending regarding this product.

5860100

5860000 5860000G

Mechanical Characteristics	
Dimensions (see drawing)	Height: 2690 mm Width: 253 mm Depth: 147 mm
Weight	25 kg (excluding mounting accessory)
Shroud	Outdoor plastic, Grey RAL7035
Wind Speed	Operational: 160 km/h Survival: 200 km/h
Wind load at 160 km/h	Frontal: 580 N Lateral: 480 N Rear: 910 N

Packaging
Carton box
2.93 x 0.35 x 0.24 m
0.246 m ³ 33kg

Mounting Kit Options (These installation accessories must be ordered separately)		
Description	Part number	Weight
Brackets for pole 48 to 115 mm	0900393/00	5.1 kg
Brackets for pole 70 to 150 mm	0900501/00	5.8 kg
Kit to add mechanical tilt (0° to 10°) to above brackets	0900394/00	3.1 kg
Wall mounting brackets with azimuth pan	0900395/00	2.3 kg
Wall mounting brackets with mechanical tilt and azimuth pan	0900533/00	4.4 kg

Antenna bottom



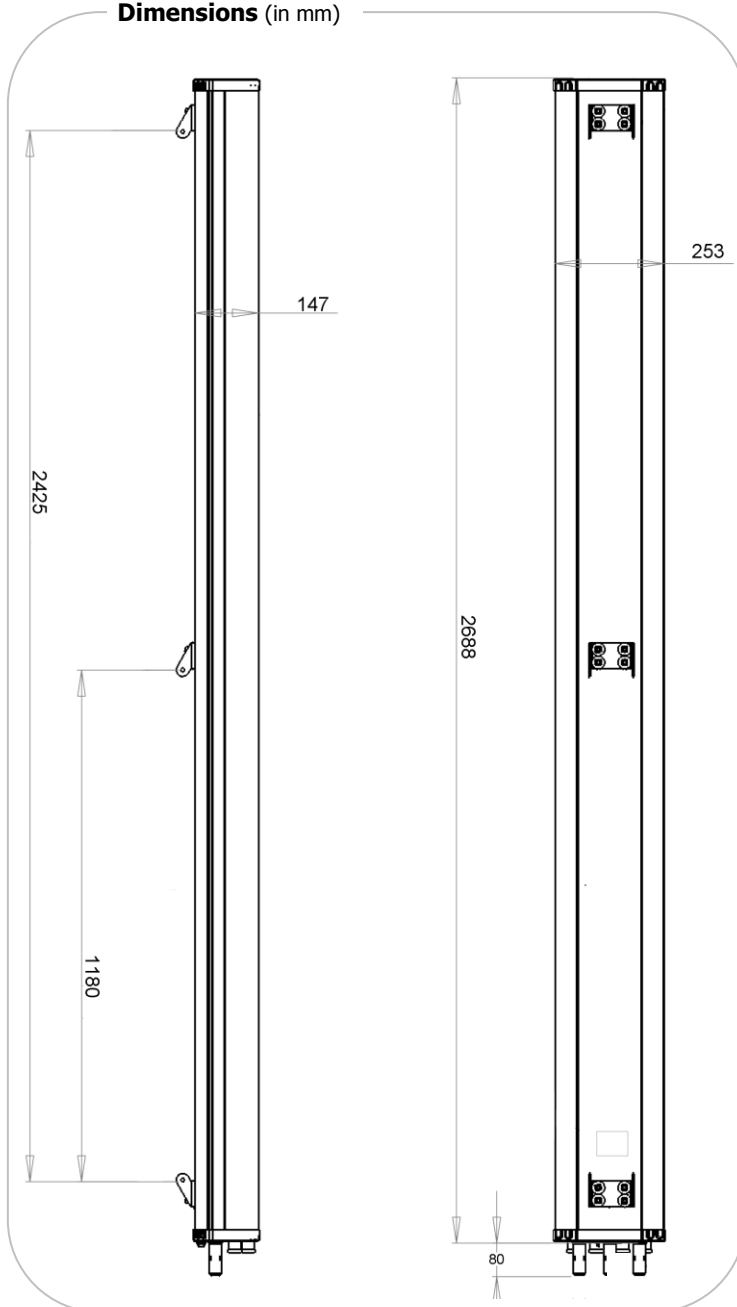
Location of the MDCU for RET control

Tilt indicator covered by a transparent cap. Manual adjustment is accessed by removing the cap. Knob colour is same as connectors. For RET control, the cap must be in place.

Installation

Always attach the antenna by its 3 mounting points. Do not install the antenna with the connectors facing upward.

Dimensions (in mm)



DT 5341 - Ed 1 - page 2/2 - We reserve the rights to modify our products without prior notice - Several patents pending regarding this product.