

- Triple Band Antenna, dual polarisation, 6 connectors
- Independent tilt on each band 0°-10° / 0°-12° / 0°-12°
- 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)

XXXpol / 65° Az
17.5 / 17.2 / 17.3 dBi



Model number options: **5880100** Manual Electrical tilt Antenna
5880000 Remote Electrical Tilt Antenna (AISG1.1)
5880000G Remote Electrical Tilt Antenna (3GPP/AISG2.0)

Access Ports Description (Connectors)			
The Antenna has 6 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 (top array):	1710-2170 MHz ports (wide band) pattern optimised for DCS1800	WHITE rings	2 x 7-16 DIN female Ultra Long Neck
High band (bottom array):	1710-2170 MHz ports (wide band) pattern optimised for UMTS2100	BLUE rings	2 x 7-16 DIN female Long Neck

Electrical Characteristics	Low Band Red	High Band White		High Band Blue	
Frequency Band (MHz)	880...960	1710...1880	1900...2170	1710...1880	1900...2170
Gain (dBi) tilt 0°	17.0...17.5	16.5...16.7	16.7...17.2	16.5...16.9	16.9...17.3
tilt 5°	17.0...17.5	16.3...16.5	16.5...17.0	16.4...16.7	16.7...17.2
tilt 10°	16.9...17.4	16.0...16.3	16.3...16.5	16.3...16.5	16.5...17.0
Input Impedance	50 ohms	50 ohms		50 ohms	
VSWR	<1.4	<1.4		<1.4	
Polarisation	±45°	±45°		±45°	
Horizontal Beamwidth (-3 dB)	65°	65°	62°	65°	62°
Vertical Beamwidth (-3 dB)	7°	7°	7°	7°	7°
Electrical Downtilt range	0° to 10°	0° to 12°		0° to 12°	
Isolation between ports	>30 dB	>30 dB		>30 dB	
Isolation between bands	45 dB typ.	45 dB typ.		45 dB typ.	
Upper Sidelobe Rejection (20° sector above main beam)	18 dB typ.	18 dB typ.		18 dB typ.	
Front to back ratio	>30 dB	>30 dB		>30 dB	
Maximum Power (per port)	200 W	160 W		160 W	
Intermodulation 3rd order for 2 x 20 W carriers	<-110 dBm	<-110 dBm		<-110 dBm	

Electrical Downtilt Control		
Electrical downtilt can be controlled separately for Low Band, High Band White and High Band Blue. The three tilt indicators are covered by a removable transparent cap.		
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-A0002 for AISG1.1 protocol (one unit included in 5880000) MDCU-G0002 for 3GPP/AISG2.0 protocol (one unit included in 5880000G)	

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



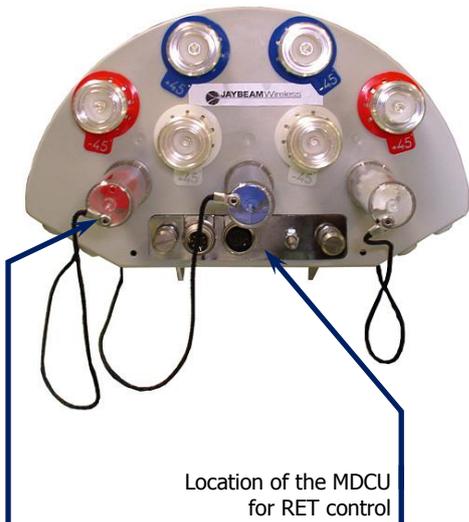
DT 5342 - Ed 1 - page 1/2 - We reserve the rights to modify our products without prior notice - Several patents pending regarding this product.

Mechanical Characteristics	
Dimensions (see drawing)	Height: 2690 mm Width: 253 mm Depth: 147 mm
Weight	27.5 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 35 kg

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)

