

- Tri-sector "monopole" Triple Band Antenna, 6 connectors
- Independent tilt on each band 0°-10° / 0°-12° / 0°-12°
- Independent azimuth panning ±15° on each sector
- Very small diameter: 388 mm
- MET and RET versions, AISG1.1 or 3GPP/AISG2.0

3-sector XXXpol / 65° Az
17.5 / 17.2 / 17.3 dBi

Model number options: **5880903** Manual Electrical tilt Antenna
5880803 Remote Electrical Tilt Antenna (AISG1.1)
5880803G Remote Electrical Tilt Antenna (3GPP/AISG2.0)



General Description
The 5880903 antenna contains three tri-band antennas installed at 120° in a unique cylindrical shroud with ±15° azimuth panning capability. A service area at the bottom can be opened for the access to the connectors and to the manual adjustments of the electrical downtilts and the azimuth panning.
The 5880803 is identical but is delivered with each sector already equipped with remote control of the electrical downtilts according to AISG1.1 protocol.
The 5880803G is identical but is delivered with each sector already equipped with remote control of the electrical downtilts according to 3GPP/AISG2.0 protocol.

Access Ports Description (Connectors)			
Each sector has 6 connectors located inside the service area and marked with colour rings. (photo next page)			
Low band Red:	GSM900 (880-960 MHz) ports	RED rings	2 x 7/16 DIN Long Neck
High band White (top array):	Wide band (1710-2170 MHz) ports pattern optimised for DCS1800	WHITE rings	2 x 7/16 DIN Ultra Long Neck
High band Blue (bottom array):	Wide band (1710-2170 MHz) ports pattern optimised for UMTS2100	BLUE rings	2 x 7/16 DIN Long Neck

Electrical Specifications	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 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	MDCU-A0002 AISG1.1 protocol (3 units included in 5880803) MDCU-G0002 3GPP/AISG2.0 protocol (3 units included in 5880803G)

DT 5393 - Ed B - page 1/2 - We reserve the rights to modify our products without prior notice - Several patents pending regarding this product.

