

- Quad Band Antenna, dual polarisation, 8 connectors per sector
- Independent tilt on each band 2°-10° / 0°-10° / 0°-10° / 0°-10°
- Independent azimuth panning ±15° on each sector
- MET and RET versions, AISG1.1 or 3GPP/AISG2.0

XXXXpol / 65° Az
16.5 / 18.0 / 18.0 / 18.0 dBi
2-10 / 0-10 / 0-10 / 0-10 °
1914 x 305 x 162 mm

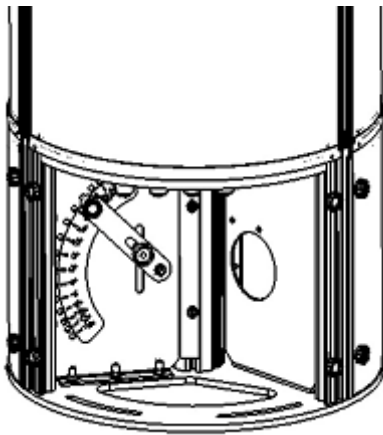
Presentation										
The 6888303 is a tri-sector system and contains three quad-band antennas installed at 120° in a cylindrical shroud with ±15° azimuth panning capability independent on each sector. A service area at the bottom can be opened for the access to the connectors and to the manual adjustments of the electrical downtilts and the azimuth panning. Variants can be delivered with only one or two sector fitted. See table below.										
Model Reference Numbers										
		Three sectors			Two sectors			One sector		
	MET	6888303			6888302			6888301		
	RET AISG1.1	6888303A			6888302A			6888301A		
	RET 3GPP/AISG2.0	6888303G			6888302G			6888301G		
Access Ports Description (Connectors)										
The Antenna has 8 connectors located at its bottom face and marked with colour rings.										
R1	Ultra Low Band:	698-960 MHz ports			2 x 7-16 DIN female Long Neck					
Y1	Ultra Wide Band:	1695-2690 MHz ports			2 x 7-16 DIN female Ultra Long Neck					
B1	Wide Band:	1695-2180 MHz ports			2 x 7-16 DIN female Ultra Long Neck					
Y2	2600:	2490-2690 MHz ports			2 x 7-16 DIN female Long Neck					
Electrical Characteristics		R1			Y1			B1		Y2
Frequency Bands		700	800	900	1800	2100	2600	1800	2100	2600
Gain (dBi)	tilt 0°	14.5	15.5	16.4	17.7	17.7	17.7	17.4	17.8	17.9
	tilt 5°	14.5	15.4	16.3	17.7	17.7	17.7	17.4	17.6	17.7
	tilt 10°	14.2	15.1	16.0	17.7	17.5	17.4	17.3	17.5	17.3
Input Impedance		50 ohms			50 ohms			50 ohms		50 ohms
VSWR		<1.5			<1.5			<1.5		<1.5
Polarisation		±45°			±45°			±45°		±45°
Horizontal Beamwidth (-3 dB)		73°	65°	65°	65°	63°	61°	65°	63°	61°
Vertical Beamwidth (-3 dB)		12°	10°	9.4°	6.1°	5.3°	4.2°	6.1°	5.3°	4.2°
Electrical Downtilt range		2° to 10°			0° to 10°			0° to 10°		0° to 10°
Inter/Intra Band Isolation		>25 dB			>25 dB			>28 dB		>28 dB
Upper Sidelobe Rejection (20° sector above main beam)		18 dB typ.			18 dB typ.			18 dB typ.		18 dB typ.
Front to back @180°+/-30°		>25 dB			>25 dB			>25 dB		>25 dB
Power handling per input (CW):		250 W			200 W			200 W		200 W
Max. power per input (Peak) :		400 W			250 W			250 W		250 W
Intermodulation 3rd order for 2 x 20 W carriers		<-110 dBm			<-110 dBm			<-110 dBm		<-110 dBm
Electrical Downtilt Control										
Electrical downtilt can be controlled separately for R1, Y1, B1 and Y2 arrays. 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-A0000	for AISG1.1 protocol (one unit included in 6888300A)								
	MDCU-G0000	for 3GPP/AISG2.0 protocol (one unit included in 6888300G)								
Environmental										
Operating Temperature Range	-40°C to +60°C									
Environmental	ETS 300 019									
RoHS compliant	Yes									



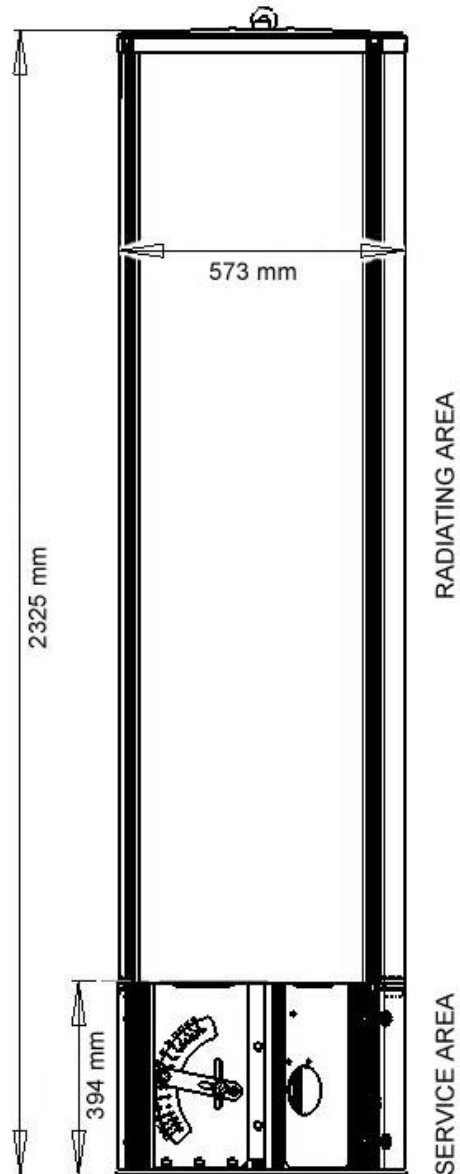
Mechanical Characteristics	
Dimensions	Total height: 2325 mm (including 394 mm service area) Diameter: 573 mm
Relative directions of internal antennas (sector axis)	0° (+/-15°) 120° (+/-15°) 240° (+/-15°)
Weight	3 sectors: 159 kg 2 sectors: 134 kg 1 sector: 109 kg
Shroud	Outdoor plastic, Grey RAL7035
Wind Speed	Operational: 160 km/h Survival: 200 km/h
Wind load at 160 km/h	790 N

Packaging
Carton box 2.55 x 0.76 x 0.82 m 150 kg

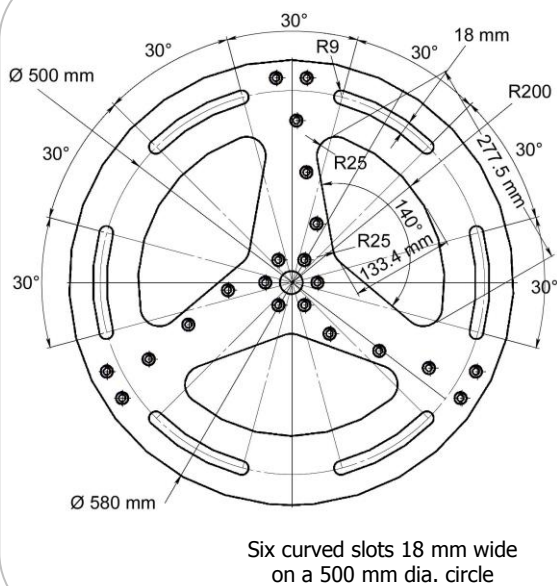
Antenna bottom
(view inside service area)



Dimensions



Mounting Flange Interface



TRIO extension

General Description	
A TRIO Extension is a short mounting (0.85 m) mast which has the same diameter (573 mm), same outside material, and same colour as the antenna. The two major advantages of the extensions are getting the antenna higher, and housing our TMA.	
Dimensions	Height 0.85 m Diameter 573 mm
Weight	66 kg
Shroud	Outdoor plastic, Grey RAL 7035
Flange	Galvanised steel
Wind speed	Operational : 160 km/h Survival : 200 km/h
For more details and part numbers please refer to our separate documentation on TRIO extensions.	

Packaging
Carton box 0.76 x 0.76 x 1.10 m 67 kg

