

5863288G

5863288NG

2-Band | 4-Port | XPOL | Panel Antenna | Variable Tilt | 2597 mm

- Dual band antenna, dual polarisation, 4 connectors
- Continuously adjustable tilt 0-10° / 0-10°
- RET versions
- Integrated RET Units

ORDERING OPTIONS	MODEL NUMBER
Antenna with 4.3-10 Connectors	5863288NG
Antenna with 7/16-DIN Connectors	5863288G

ACCESS PORT DESCRIPTION (CONNECTORS)		
This antenna has 4 colour-coded connectors located at the bottom face.		
Frequency Designation	R1	
Frequency Range	790-960 MHz	1710-2170 MHz
Polarisation	Xpol	Xpol
Horizontal Beamwidth	65°	65°
Electrical Downtilt Range	0-10°	0-10°
Connector Type	(2x) 4.3-10 or 7/16-DIN Female	(2x) 4.3-10 or 7/16-DIN Female

ELECTRICAL CHARACTERISTICS		R1	
Frequency Bands		790-960 MHz	
		790-894	880-960
Gain	At Mid Tilt	16.6 dBi	17.2 dBi
	Over All Tilts	16.6 ± 0.5 dBi	17.2 ± 0.6 dBi
Input Impedance		50Ω	
VSWR		< 1.5	
Polarisation		±45°	
Horizontal Beamwidth (-3 dB)		65° ± 4.5°	64° ± 4.5°
Vertical Beamwidth (-3 dB)		8.3° ± 0.6°	7.2° ± 0.6°
Electrical Downtilt Range		0-10°	
Cross-Polar Isolation		> 28 dB	
Port-to-Port Isolation		> 28 dB	
Upper Sidelobe Suppression	First Upper Lobe	> 17 dB	> 17 dB
	Peak to 20°	> 15 dB	> 15 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 25 dB	> 25 dB
Cross Polar Discrimination	Main Direction	> 18 dB	> 17 dB
	Sector Edges	> 8 dB	> 8 dB
Maximum Power (Per Port)		350 W (at 50°C ambient temperature)	
Intermodulation 3rd (2x43 dBm Carrier)		< -153 dBc	
Grounding		DC Ground	



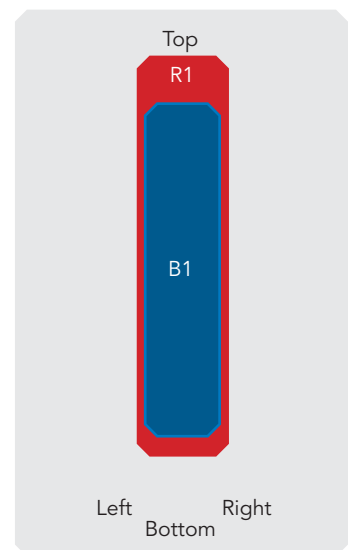
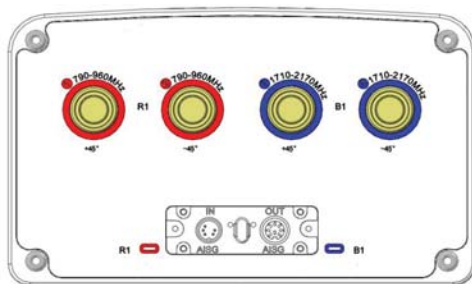
Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

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ELECTRICAL CHARACTERISTICS		B1		
Frequency Bands		1710-2170 MHz		
		1710-1880	1850-1990	1920-2170
Gain	At Mid Tilt	17.1 dBi	17.6 dBi	17.9 dBi
	Over All Tilts	17.1 ± 0.6 dBi	17.6 ± 0.6 dBi	17.9 ± 0.6 dBi
Input Impedance		50Ω		
VSWR		< 1.5		
Polarisation		±45°		
Horizontal Beamwidth (-3 dB)		66° ± 4.8°	63° ± 4.6°	61° ± 4.5°
Vertical Beamwidth (-3 dB)		6.5° ± 0.5°	6.0° ± 0.5°	5.5° ± 0.5°
Electrical Downtilt Range		0-10°		
Cross Polar Isolation		> 28 dB		
Port-to-Port Isolation		> 28 dB		
Upper Sidelobe Suppression	First Upper Lobe	> 17 dB	> 17 dB	> 17 dB
	Peak to 20°	> 15 dB	> 15 dB	> 15 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 24 dB	> 24 dB	> 24 dB
Cross Polar Discrimination	Main Direction	> 22 dB	> 20 dB	> 19 dB
	Sector Edges	> 9 dB	> 9 dB	> 8 dB
Maximum Power (Per Port)		250 W (at 50°C ambient temperature)		
Intermodulation 3rd (2x43 dBm Carrier)		< -153 dBc		
Grounding		DC Ground		



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ R1	790-960	1-2	4.3-10 Female or 7/16-DIN Female
	■ B1	1710-2170	3-4	4.3-10 Female or 7/16-DIN Female

Diagram shown at right depicts the view from the front of the antenna. The illustration is not shown to scale.

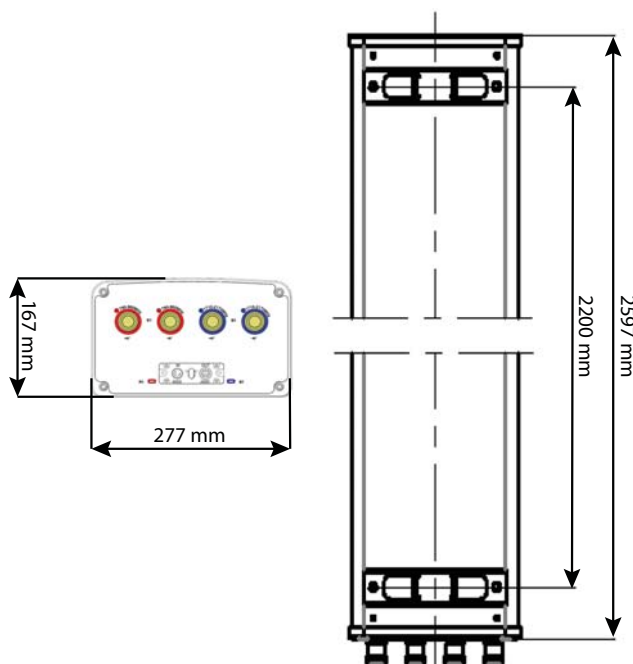
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INTEGRATED RET PROPERTIES		PACKAGING
Protocol	Compliant with 3GPP/AISGv2.0	Carton Box 2.797 x 0.372 x 0.287 m (110.1 x 14.6 x 11.3 in)
Power Supply	10-30VDC	
Adjustment Time (Full Range)	≤ 90 sec (typical, depending on antenna type)	
Power Consumption	< 1 W (Idle); < 10 W (In Motion)	
Accuracy	≤ 0.5°	
Hardware Interface	RS485 and Power	
Safety Standard	Compliant to EN 60950/UL 60950/ RoHS, CE	
Remote Control	Can manage from OMC, BTS/Node B	
Adjustment Cycles	> 10,000	
Torque Max	≥ 160 mN.m	
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 8 kA	
Connectors	(2x) 8-Pin Circle Connector According to IEC 60130-9 and AISG Daisy Chain In: Male; Daisy Chain Out: Female Pin 3: RS485+; Pin 5: RS485-; Pin 6: 10~30V; Pin 7: GND	
MECHANICAL CHARACTERISTICS		
Dimensions (Height x Width x Depth)	2597 x 277 x 167 mm (102.2 x 10.9 x 6.6 in)	
Weight (excluding mounting accessory)	23 kg (50.7 lbs)	
Radome Material, Colour	UPVC	
Connector Type	(2x) 4.3-10 Female or 7/16-DIN Female	
Maximum Wind Speed	200 km/h (124.3 mph)	
Wind Load at 150 km/h	Front	1185 N (266.4 lbf)
	Lateral	1310 N (294.5 lbf)
MOUNTING KIT OPTIONS	POLE DIAMETER	MECHANICAL TILT RANGE
All mounting bracket kits are ordered separately unless otherwise indicated.		
Mounting Bracket Kit (Included)	Ø50-Ø125 mm (Ø2.0-Ø4.9 in)	0-10°



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