

## 5820288G

1-Band | 2-Port | XPOL | Panel Antenna | Variable Tilt | 2587 mm

- Single band antenna, dual polarisation, 2 connectors
- Continuously adjustable tilt 0-10°
- RET versions
- Integrated RET Unit

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

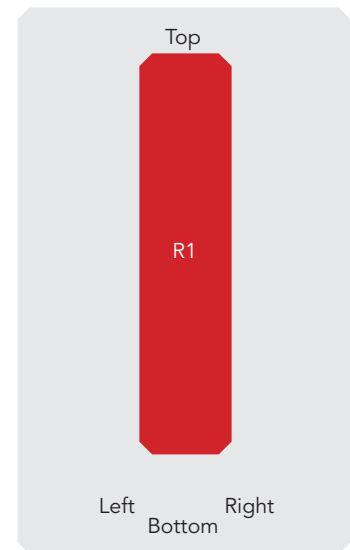
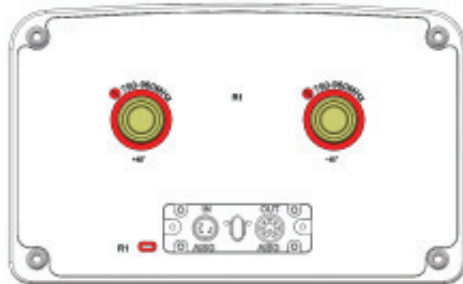
ELECTRICAL CHARACTERISTICS		<b>R1</b>	
Frequency Bands		790-960 MHz	
		790-894	880-960
Gain	At Mid Tilt	16.7 dBi	17.3 dBi
	Over All Tilts	16.7 ± 0.5 dBi	17.3 ± 0.6 dBi
Input Impedance		50Ω	
VSWR		< 1.5	
Polarisation		±45°	
Horizontal Beamwidth (-3 dB)		66° ± 3.8°	64° ± 3.5°
Vertical Beamwidth (-3 dB)		8.3° ± 0.6°	7.2° ± 0.6°
Electrical Downtilt Range		0-10°	
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	> 26 dB
Cross Polar Discrimination	Main Direction	> 19 dB	> 19 dB
	Sector Edges	> 11 dB	> 10 dB
Maximum Power (Per Port)		350 W (at 50°C ambient temperature)	
Intermodulation 3rd (2x43 dBm Carrier)		< -150 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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ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	<span style="color: red;">■</span> R1	790-960	1-2	7/16-DIN Female

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

INTEGRATED RET PROPERTIES		PACKAGING
Protocol	Compliant with 3GPP/AISGv2.0	<b>Carton Box</b> 2.787 x 0.372 x 0.287 m (109.7 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)	2587 x 277 x 167 mm (101.9 x 10.9 x 6.6 in)	
Weight (excluding mounting accessory)	21 kg (46.3 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	1180 N (265.3 lbf)
	Lateral	1300 N (292.3 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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