

5820288G

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

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

ACCESS PORT DESCRIPTION (CONNECTORS)

This antenna has 2 colour-coded connectors located at the bottom face.

Frequency Designation	R1
Frequency Range	790-960 MHz
Polarisation	Xpol
Horizontal Beamwidth	65°
Electrical Downtilt Range	2-10°
Connector Type	(2x) 7/16-DIN Female

ELECTRICAL CHARACTERISTICS

		R1	
Frequency Bands		790-960 MHz	
		790-894	880-960
Gain	At Mid Tilt	16.6 dBi	17.0 dBi
	Over All Tilts	16.5 ± 0.5 dBi	16.9 ± 0.6 dBi
Input Impedance		50Ω	
VSWR		< 1.5	
Polarisation		±45°	
Horizontal Beamwidth (-3 dB)		66° ± 4.9°	63° ± 4.7°
Vertical Beamwidth (-3 dB)		7.5° ± 1.0°	7.0° ± 1.0°
Electrical Downtilt Range		2-10°	
Intraband Isolation		> 28 dB	
Interband Isolation		> 28 dB	
Upper Sidelobe Suppression	First Upper Lobe	> 15 dB	> 15 dB
	Peak to 20°	> 15 dB	> 15 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 25 dB	> 25 dB
Cross Polar Discrimination	Main Direction	> 17 dB	> 17 dB
	Sector Edges	> 10 dB	> 9 dB
Maximum Power (Per Port)		350 W (at 50°C ambient temperature)	
Intermodulation 3rd (2x43 dBm Carrier)		< -150 dBc	
Grounding		DC Ground	



A GLOBAL INITIATIVE

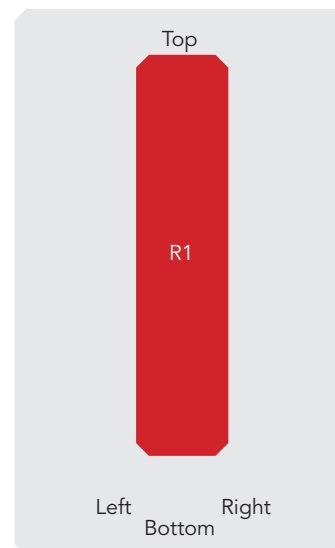


Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our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

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INTEGRATED RET PROPERTIES	
Protocol	Compliant with 3GPP/AISGv2.0
Power Supply	10-30VDC
Adjustment Time (Full Range)	≤ 90 sec (typical, depending on antenna type)
Power Consumption	< 2 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	> 20,000
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



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	 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.

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MECHANICAL CHARACTERISTICS			PACKAGING
Dimensions (Height x Width x Depth)		2587 x 277 x 167 mm (101.9 x 10.9 x 6.6 in)	Carton Box 2.787 x 0.372 x 0.287 m (109.7 x 14.6 x 11.3 in)
Weight (excluding mounting accessory)		21.5 kg (46.3 lbs)	
Weight with mounting accessory		27.5 kg (46.3 lbs)	
Radome Material, Colour		UPVC	
Connector Type		7/16-DIN Female	
Maximum Wind Speed		200 km/h (124.3 mph)	
Wind Load at 150 km/h	Front	680 N (265.3 lbf)	
	Rear	740 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°

