

5920388NG

2-Band, 4-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2527 mm

- Twin band antenna, dual polarisation, 4 connectors
- Independent tilt on each band 2-12° / 2-12°
- RET version, 3GPP/AISG2.0 with two integrated RCUs and two indicators

ACCESS PORT DESCRIPTION (CONNECTORS)					
The antenna has 4 colour-coded connectors located at the bottom face.					
Frequency Designation		R1		R2	
Frequency Range		690-960 MHz		690-960 MHz	
Polarisation		Xpol		Xpol	
Horizontal Beamwidth		65°		65°	
Electrical Downtilt Range		2-12°		2-12°	
Connector Type		(2x) 4.3/10 Female		(2x) 4.3/10 Female	
ELECTRICAL CHARACTERISTICS		R1			
Frequency Bands		690-960 MHz			
		690-806 MHz	790-862 MHz	824-894 MHz	880-960 MHz
Gain	at Mid Tilt	15.8 dBi	16.0 dBi	16.2 dBi	16.4 dBi
	Over All Tilts	15.8 ± 0.4 dBi	16.0 ± 0.4 dBi	16.2 ± 0.3 dBi	16.4 ± 0.5 dBi
Input Impedance		50Ω			
VSWR		< 1.5			
Polarisation		±45°			
Horizontal Beamwidth (-3 dB)		68° ± 5.5°	62° ± 4.6°	61° ± 3.7°	60° ± 3.4°
Vertical Beamwidth (-3 dB)		8.9° ± 0.7°	8.3° ± 0.5°	7.7° ± 0.5°	7.2° ± 0.4°
Electrical Downtilt Range		2-12°			
Port to Port Isolation		> 27 dB			
Cross-Polar Isolation		> 28 dB			
Interband Isolation		> 27 dB			
Upper Side Lobe Suppression (typical)		> 18 dB	> 18 dB	> 17 dB	> 16 dB
Upper Sidelobe Suppression (Peak to 20°)		> 16 dB	> 15 dB	> 15 dB	> 15 dB
Front-to-Back Ratio, ±30°		> 22 dB	> 23 dB	> 24 dB	> 23 dB
Horizontal Beam Port-to-Port Tracking		< 2.0 dB	< 2.5 dB	< 2.5 dB	< 2.5 dB
Tilt Accuracy		< 0.7°	< 0.7°	< 0.6°	< 0.6°
Cross Polar Ratio	Main Direction (0°)	> 20 dB	> 20 dB	> 18 dB	> 18 dB
	Sector Edges (±60°)	> 11 dB	> 10 dB	> 9.5 dB	> 9.5 dB
Maximum Power (Per Port, 50° C)		200 W			
Intermodulation 3rd Order for 2 x 43 dBm		≤ -153 dBc			
Grounding		DC Ground			

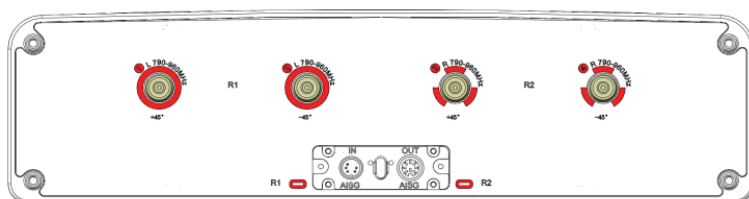


Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our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

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ELECTRICAL CHARACTERISTICS		R2			
Frequency Bands		690-960 MHz			
		690-806 MHz	790-862 MHz	824-894 MHz	880-960 MHz
Gain	at Mid Tilt	15.8 dBi	16.0 dBi	16.2 dBi	16.4 dBi
	Over All Tilts	15.8 ± 0.4 dBi	16.0 ± 0.4 dBi	16.2 ± 0.3 dBi	16.4 ± 0.5 dBi
Input Impedance		50Ω			
VSWR		< 1.5			
Polarisation		±45°			
Horizontal Beamwidth (-3 dB)		68° ± 5.8°	62° ± 4.1°	60° ± 3.8°	60° ± 3.9°
Vertical Beamwidth (-3 dB)		8.9° ± 0.7°	8.3° ± 0.5°	7.7° ± 0.5°	7.2° ± 0.4°
Electrical Downtilt Range		2-12°			
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Cross-Polar Isolation		> 28 dB			
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Upper Sidelobe Suppression, (Peak to 20°)		> 16 dB	> 15 dB	> 15 dB	> 15 dB
Front-to-Back Ratio, ±30°		> 22 dB	> 23 dB	> 23 dB	> 23 dB
Horizontal Beam Port-to-Port Tracking		< 2.5 dB	< 2.5 dB	< 2.5 dB	< 2.5 dB
Tilt Accuracy		< 0.6°	< 0.6°	< 0.6°	< 0.7°
Cross Polar Ratio	Main Direction (0°)	> 20 dB	> 20 dB	> 20 dB	> 20 dB
	Sector Edges (±60°)	> 10 dB	> 10 dB	> 10 dB	> 10 dB
Maximum Power (Per Port, 50° C)		200 W			
Intermodulation		≤ -153 dBc			
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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	< 21W (Idle); < 10 W (In Motion)
Accuracy	≤ 0.5°
Hardware Interface	Pin3: RS485B; Pin5: RS485A; Pin6: 10-30V; Pin7: DC Return
Safety Standard	Compliant to EN 60950/UL 60950/ RoHS, CE
Adjustment Cycles	> 10,000
Torque Max	≥ 160 mN.m
Protection Class	IP65
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 8 kA IEC61312-1 B Protection against lightning electromagnetic impulse 10/350 μs, 200 @ 0.6kA
Connectors	(2x) 8-Pin Circle Connector According to IEC 60130-9 and AISG Daisy Chain In: Male; Daisy Chain Out: Female

MECHANICAL CHARACTERISTICS		PACKAGING
Dimensions (Height x Width x Depth)	2527 x 497 x 127 mm (99.4 x 19.5 x 4.9 in)	Carton Box 2.657 x 0.582 x 0.227 m (104.6 x 22.9 x 8.9 in)
Weight (excluding mounting accessory)	29 kg (63.9 lbs)	
Shipping Weight	33.5 kg (73.8 lbs)	
Radome Material	Fiberglass	
Maximum Wind Speed	200 km/h (124.3 mph)	
MOUNTING KIT OPTIONS		POLE DIAMETER
All mounting bracket kits are ordered separately unless otherwise indicated.		
Mounting and Downtilt Bracket Kit (Included)	Ø50-Ø125 mm (Ø2.0-Ø4.9 mm)	

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