

5964308NG

3-Band, 6-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1997 mm

- Tri band antenna, dual polarisation, 6 connectors
- Independent tilt on each band 2-12° / 2-12° / 2-12°
- RET version, 3GPP/AISG2.0 with three integrated RCUs and three indicators

ACCESS PC	RT DESCRIPTION (CONI	NECTORS)				
The antenna	ı has 6 colour-coded conn	ectors located at the bottom f	ace.			
Frequency Designation		R1 R2		Y1		
Frequency Range		690-960 MHz	690-960 MHz	1695-2690 MHz		
Polarisation		Xpol Xpol		ХроІ		
Horizontal Beamwidth		65°	65°	65°		
Electrical Downtilt Range		2-12°	2-12°	2-12°		
Connector Type		(2x) 4.3/10 Female	(2x) 4.3/10 Female	(2x) 4.3/10 Female		
ELECTRICAL CHARACTERISTICS		R1, R2				
		690-960 MHz				
Frequency B	Bands	690-806 MHz	-806 MHz 790-894 MHz			
	At Mid Tilt	14.5 dBi	15.3 dBi	15.8 dBi		
Gain	Over All Tilts	14.3 ± 0.6 dBi	15.1 ± 0.5 dBi	15.6 ± 0.5 dBi		
Input Imped	ance	50Ω				
VSWR		< 1.5				
Return loss		> 14				
Polarisation		±45°				
Horizontal B	eamwidth (-3 dB)	70° ± 5.4°	65° ± 5.1°	61° ± 5.1°		
Vertical Beamwidth (-3 dB)		11.4° ± 1.1°	10.6° ± 0.9°	9.8° ± 0.9°		
Electrical Downtilt Range		2-12°				
Interband Is	olation	> 26 dB				
Cross Polar Is	solation	> 26 dB				
Port to Port Isolation		> 26 dB (R1 // R2), > 28 dB (Y1 // R1, R2)				
First Upper S	idelobe Suppression	> 16 dB	> 16 dB	> 16 dB		
Upper Sidelobe Suppression (Peak to 20°)		> 15 dB	> 15 dB	> 15 dB		
Front-to-Back Ratio, 180° ± 30°		> 23 dB	> 24 dB	> 25 dB		
Cross Polar Ratio	Main Direction (0°)	> 17 dB	> 18 dB	> 17 dB		
	Sector Edges (±60°)	> 7.0 dB	> 8.0 dB	> 6.5 dB		
Maximum Power (Per Port, 50° C)		350 W				
Intermodulation 3rd Order for 2 x 43 dBm Carriers		< -150 dBc				

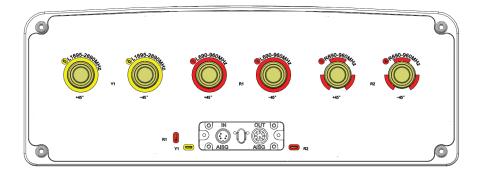


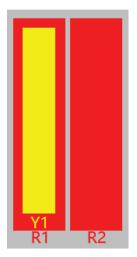


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ELECTRICAL CHAR	ACTERISTICS			Y1			
Frequency Bands		1695-2690 MHz					
		1695-1880 MHz	1850-1990 MHz	1920-2170 MHz	2300-2400 MHz	2490-2690 MHz	
Gain	At Mid Tilt	16.8 dBi	17.2 dBi	17.5 dBi	17.7 dBi	17.5 dBi	
	Over All Tilts	16.6 ± 0.5 dBi	17.0 ± 0.5 dBi	17.3 ± 0.5 dBi	17.5 ± 0.5 dBi	17.3 ± 0.5 dBi	
Input Impedance		50Ω					
VSWR		< 1.5					
Return loss		> 14					
Polarisation		±45°					
Horizontal Beamwidth (-3 dB)		66° ± 6.5°	65° ± 6.5°	64° ± 6.5°	58° ± 5.0°	58° ± 6.5°	
Vertical Beamwidth (-3 dB)		7.4° ± 0.5°	6.8° ± 0.4°	6.1° ± 0.5°	5.7° ± 0.5°	$5.2^{\circ} \pm 0.6^{\circ}$	
Electrical Downtilt Range		2-12°					
Interband Isolation		> 26 dB					
Cross Polar Isolation		> 26 dB					
Port to Port Isolation		> 28 dB					
First Upper Sidelobe Suppression		> 16 dB	> 16 dB	> 16 dB	> 15 dB	> 15 dB	
Upper Sidelobe Suppression (Peak to 20°)		> 15 dB	> 15 dB	> 15 dB	> 15 dB	> 14 dB	
Front-to-Back Ratio, 180° ± 30°		≥ 25 dB	≥ 25 dB	> 25 dB	≥ 26 dB	≥ 26 dB	
Cross Polar Ratio	Main Direction (0°)	> 16 dB	>16 dB	> 17 dB	> 18 dB	> 19 dB	
Cross Polar Ratio	Sector Edges (±60°)	> 7.0 dB	> 8.0 dB	> 8.0 dB	> 6.5 dB	> 4.5 dB	
Maximum Power (Per Port, 50° C)		250 W					
Intermodulation 3rd Order for 2 x 43 dBm Carriers		< -150 dBc					







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INTEGRATED RET PROPERTIES				
Power Supply	10-30VDC Compliant with 3GPP/AISGv2.0			
Power Consumption	< 2W (Idle), < 10W (In Motion)			
Hardware Interface	Pin 3: RS485B; Pin 5: RS485A; Pin 6: 10-30V; Pin 7: DC Return; According to AISG/3GPP			
Protocol Supported	Compliant to AISG v2.0 and 3GPP			
Adjustment Time (Full Range)	≤ 90 seconds (typical, dependent on antenna type)			
Adjustment Cycles	> 20,000			
Torque Max	≥ 160 mN.m			
Safety Standard	Compliant to EN 60950/UL 60950/ RoHS, CE			
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 8 kA IEC 61312-1B Protection against lightning electromagnetic impulse 10/350 μs, 200 @ 0.6 kA			
Connectors	(2x) 8-Pin Circle Connector According to IEC 60130-9 and AISG.C-485 Daisy Chain In: Male; Daisy Chain Out: Female			

ENVIRONMENTAL CHARACTERISTICS					PACKAGING
Lightning Protection			DC Ground		
MECHANICAL CHARACTERISTICS					Carton Box 2.197 x 0.562 x 0.287 m
Dimensions (Height x Width x Depth)			1997 x 467 x 167 mm (78.6 x 18.3	(86.4 x 22.1 x 11.2 in)	
Weight (excluding mounting accessory)			28.5 kg (62.8 lbs)		
Shipping Weight		33 kg (72.7 lbs)			
Radome Material		Fiberglass			
Maximum Wind Speed		200 km/h (124.3 mph)			
	Frontal	860 N (193.3 lbf)			
Wind Load at 150 km/h	Rear	965 N (216.9 lbf)			
	Lateral	320 N (71.9 lbf)			
MOUNTING KIT OPTIONS			POLE DIAMETER	MECHANICAL TILT	
All mounting brac	ket kits are ordered se	paratel	y unless otherwise indicated.		
Mounting and Downtilt Bracket Kit (Included)		uded)	d) Ø50-Ø125 mm (Ø2.0-Ø4.9 mm) 0-12°		



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