

698-960 | 698-960 | 1710-2690 | 1698-2690 | 1710-2690 | 1710-2690 MHz

65°

2497 mm

5679308NG

6-Band, 12-Port, 65°, XPOL, Panel Sector Antenna, Variable Tilt, 2497 mm

- Hexa band antenna, dual polarisation, 12 connectors
- Independent, continuously adjustable tilt on each band 2-12° / 2-12° / 2-12° / 2-12° / 2-12° / 2-12°
- RET version, 3GPP/AISG2.0 with six integrated RCUs

ACCESS PORT DESCRIPTION (CONNECTORS)						
The antenna has 12 colour-coded connectors located at the bottom face.						
Frequency Designation R1 R2 Y1 Y2 Y3 Y4						
Frequency Range	698-960 MHz	698-960 MHz	1710-2690 MHz	1710-2690 MHz	1710-2690 MHz	1710-2690 MHz
Polarisation	Xpol	Xpol	Xpol	Xpol	Xpol	Xpol
Horizontal Beamwidth	65°	65°	65°	65°	65°	65°
Electrical Downtilt Range	2-12°	2-12°	2-12°	2-12°	2-12°	2-12°
Connector Type	(2x) 4.3-10 Female					

ELECTRICAL CHARACTERISTICS R1, R2					
Frequency Bands		698-960 MHz			
		698-803 MHz	824-894 MHz	880-960 MHz	
Gain	at Mid Tilt	16.0 dBi	16.3 dBi	16.6 dBi	
Gain	Over All Tilts	15.8 ± 0.6 dBi	16.4 ± 0.4 dBi	16.6 ± 0.5 dBi	
Input Impedance	ce	50 Ω			
VSWR		< 1.5			
Return Loss			> 14 dB		
Polarisation			± 45°		
Horizontal Beamwidth		64° ± 6.0°	61° ± 5.5°	60° ± 4.5°	
Vertical Beamwidth		8.6° ± 0.6°	7.8° ± 0.7°	7.2° ± 0.8°	
Electrical Downtilt Range		2-12°			
Cross-Polar Isol	ation (Typical)	> 28 dB			
Port-To-Port Isc	plation (Typical)	> 28 dB (R1/R2), > 28 dB (R1/Y1,Y2,Y3,Y4)			
First Upper Side	First Upper Sidelobe Suppression > 12 dB > 15 dB		> 16 dB		
Front-to-Back Ratio ± 30°		> 21 dB	> 21 dB	> 21 dB	
Cross Polar Discrimination at Boresight		> 17 dB	> 18 dB	> 18 dB	
Maximum Power (Per Port)		300 W (at 50° C ambient temperature)			
Grounding		DC Ground			
Intermodulation 3rd Order for 2x	n k 43 dBm Carrier	≤ -150 dBc			





Standard values based on NGMN-P-BASTA version 12.0 recommendation.

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ELECTRICAL CHARACTERISTICS		Y1 , Y2, Y3, Y4				
Frequency Bands		1710-2690 MHz				
		1710-1880 MHz	1920-2170 MHz	2300-2400 MHz	2490-2690 MHz	
	At Mid Tilt	16.6 dBi	17.2 dBi	17.4 dBi	17.4 dBi	
Gain	Over All Tilts	16.5 ± 0.5 dBi	17.0 ± 0.5 dBi	17.3 ± 0.3 dBi	17.3 ± 0.3 dBi	
Input Impedance	9		50) Ω		
VSWR			<	1.5		
Return Loss			> 14	4 dB		
Polarisation		± 45°				
Horizontal Beamwidth		67° ± 4.5°	63° ± 6.5°	62° ± 6.5°	58° ± 6.5°	
Vertical Beamwidth		7.4° ± 0.5°	6.4° ± 0.5°	5.8° ± 0.5°	5.4° ± 0.6°	
Electrical Downtilt Range		2-12°				
Cross-Polar Isolation (Typical)		> 28 dB				
Port-To-Port Isol	ation (Typical)	> 28 dB				
First Upper Side Lobe Suppression		> 15 dB	> 15 dB	> 15 dB	> 15 dB	
Front-To-Back Ratio ±30°		> 24 dB	> 24 dB	> 24 dB	> 24 dB	
Cross Polar Discrimination at Boresight		> 15 dB	> 16 dB	> 17 dB	> 17 dB	
Maximum Power (Per Port)		250 W (at 50°C ambient temperature)				
Intermodulation	3rd (2x43 dBm Carrier)	≤ -150 dBc				
Grounding		DC Ground				

Standard values based on NGMN-P-BASTA version 12.0 recommendation.

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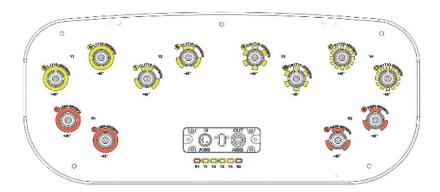
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INTEGRATED RET PROPERTIES				
Supply Voltage Range		10-30 V DC		
Power Consumption	Standby	< 2 W		
	In Motion	< 10 W		
Connectors		2 x 8 Pin Circle Connector According to IEC 60130-9 and AISG Daisy Chain In: Male; Daisy Chain Out: Female Pin3: RS485B; Pin5: RS485A; Pin6: 10-30 V; Pin7: DC Return Female Connector: 8 PINs; Male Connector: 4 PINs		
Lightning Protection Rating		IEC 61000-4-5 Current Pulse Profile Line to Ground 8/20 µs @ 8kA ≥±5 Repetitions Line to line , 8/20 µs @ 3kA ≥±5 Repetitions		
Safety Standard		Compliant to EN 60950/UL 60950/RoHS, CE		



	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
LAYOUT	■ R1	698-960	1-2	4.3-10 Female
	■ R2	698-960	3-4	4.3-10 Female
-	Y1	1710-2690	5-6	4.3-10 Female
	Y2	1710-2690	7-8	4.3-10 Female
	Y3	1710-2690	9-10	4.3-10 Female
	<u> </u>	1710-2690	11-12	4.3-10 Female

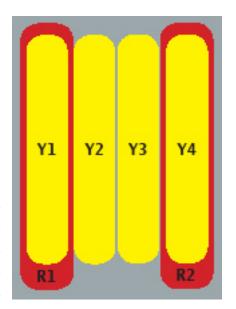


Diagram shown at right depicts the view from the front of the antenna.

The illustration is not shown to scale.

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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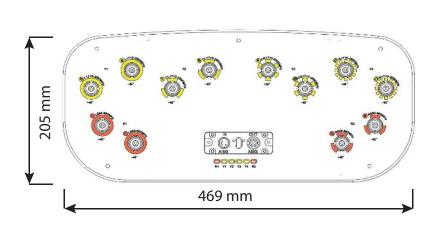
MECHANICAL CHARACTERISTICS				
Dimensions (Height x Width x Depth)		2497 x 469 x 205 mm (98.3 x 18.3 x 8.0 in)		
Weight (excluding mounting accessory)		34.5 kg (76.0 lbs)		
Weight with mounting accessory		40 kg (88.1 lbs)		
Radome Material		Fiberglass (UV Resistant, Light Grey)		
Radiator Material		Low loss circuit board		
Reflector Material		Aluminum		
Maximum Wind Speed		200 km/h (124.3 mph)		
Operating Temperature		-40° to +60° C (-40° to +140° F)		
Frontal		745 N (88.1 lbf)		
Wind Load at 150 km/h (93.2 mph)	Rear	700 N (157.3 lbf)		
	Lateral	310 N (69.6 lbf)		
MOUNTING KIT OPTIONS		POLE DIAMETER	MECHANICAL TILT	

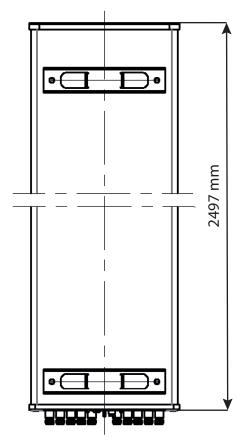
Carton Box	

2.737 x 0.544 x 0.280 m (107.7 x 21.4 x 11.0 in)

PACKAGING

Lateral	(זמו 6.70) או טו כ			
MOUNTING KIT OPTIONS	POLE DIAMETER	MECHANICAL TILT		
All mounting bracket kits are ordered separately unless otherwise indicated.				
Mounting Bracket Kit (Included)	Ø50-Ø125 mm (Ø2.0-Ø4.9 mm)	0-10°		





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