

5825388F00

2-Band, 4-Port, 65°, XPOL, Panel Antenna, Fixed Tilt, 350 mm

- Dual band antenna, dual polarisation, 4 connectors
- Fixed Tilt

ACCESS PORT DESCRIPTION (CONNECTORS)		
The antenna has 4 colour-coded connectors located at the bottom face.		
Frequency Designation	R1	Y1
Frequency Range	698-960 MHz	1710-2690 MHz
Polarisation	Xpol	Xpol
Horizontal Beamwidth	65°	65°
Fixed Electrical Downtilt	0°	0°
Connector Type	(2x) 4.3-10 Female	(2x) 4.3-10 Female

ELECTRICAL CHARACTERISTICS		R1		
Frequency Bands		698-960 MHz		
		698-806 MHz	790-894 MHz	880-960 MHz
Gain	Mid Tilt	8.0 ± 1.0 dBi	8.3 ± 1.0 dBi	8.5 ± 1.0 dBi
Input Impedance		50Ω		
VSWR		< 1.5		
Return loss		> 14 dB		
Polarisation		±45°		
Horizontal Beamwidth (-3 dB)		70° ± 10°	68° ± 10°	65° ± 10°
Vertical Beamwidth (-3 dB)		65° ± 10°	63° ± 10°	62° ± 10°
Fixed Electrical Downtilt		0°		
Inter Band Isolation		> 23 dB		
Cross-Polar Isolation		> 20 dB		
Port-to-Port Isolation		> 23 dB		
Front-to-Back Ratio (@ 180° ± 30°)		> 20 dB	> 20 dB	> 21 dB
Cross Polar Ratio	Main Direction (0°)	> 15 dB	> 15 dB	> 15 dB
	Sector Edges (±60°)	> 8 dB	> 8 dB	> 8 dB
Maximum Average Power Per Port (50° C Ambient Temperature)		250 W		
Intermodulation 3rd Order, 2 x 43 dBm Carrier		< -150 dBc		
Grounding		DC Ground		

Standard values based on NGMN-P-BASTA version 10.0 recommendation.

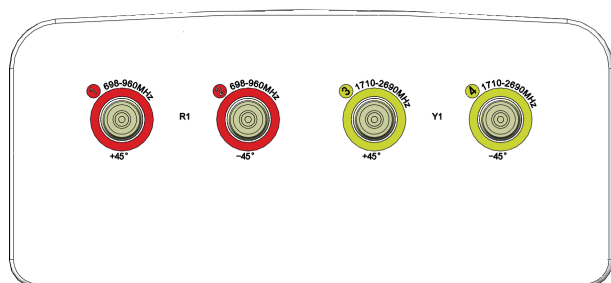
Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our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

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ELECTRICAL CHARACTERISTICS		Y1				
		1710-2690 MHz				
Frequency Bands		1710-1880 MHz	1850-1990 MHz	1920-2170 MHz	2300-2400 MHz	2500-2690 MHz
Gain		11.5 ± 1.0 dBi	11.5 ± 1.0 dBi	11.8 ± 1.0 dBi	12.0 ± 1.0 dBi	12.0 ± 1.0 dBi
Input Impedance		50Ω				
VSWR		< 1.5				
Return loss		> 14 dB				
Polarisation		±45°				
Horizontal Beamwidth (-3 dB)		70° ± 10°	67° ± 10°	67° ± 10°	65° ± 10°	62° ± 10°
Vertical Beamwidth (-3 dB)		28° ± 6°	26° ± 6°	25° ± 6°	22° ± 6°	20° ± 6°
Fixed Electrical Downtilt		0°				
Inter Band Isolation		> 23 dB				
Cross-Polar Isolation		> 22 dB				
Port-to-Port Isolation		> 23 dB				
First Upper Sidelobe Suppression		> 14 dB	> 14 dB	> 14 dB	> 13 dB	> 12 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 22 dB	> 22 dB	> 22 dB	> 22 dB	> 22 dB
Cross Polar Ratio	Main Direction (0°)	> 15 dB	> 15 dB	> 15 dB	> 15 dB	> 15 dB
	Sector Edges (±60°)	> 5.0 dB	> 5.0 dB	> 5.0 dB	> 3.0 dB	> 2.0 dB
Maximum Average Power Per Port (50° C Ambient Temperature)		200 W				
Intermodulation 3rd Order, 2 x 43 dBm Carrier		< -150 dBc				
Grounding		DC Ground				

Standard values based on NGMN-P-BASTA version 10.0 recommendation.



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ R1	698-960	1-2	4.3-10 Female
■ Y1	1710-2690	3-4	4.3-10 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)	350 x 280 x 125 mm (13.7 x 11.0 x 4.9 in)	
Weight (excluding mounting accessory)	3.5 kg (7.7 lbs)	
Weight with brackets	4.5 kg (9.9 lbs)	
Radome Material	Fiberglass	
Survival Wind Speed	200 km/h (124.2 mph)	
Wind Load at 150 km/h	Frontal	90 N (20.2 lbf)
	Rear	100 N (22.4 lbf)
	Lateral	45 N (10.1 lbf)
Operating Temperature	-40° to +60° C (-40° to 140° F)	
MOUNTING KIT OPTIONS		MECHANICAL TILT RANGE
All mounting bracket kits are ordered separately unless otherwise indicated.		
Brackets for pole Ø50 to Ø115 mm (included)	0°-20°	

Carton Box
0.500 x 0.375 x 0.245 m
(19.6 x 14.7 x 9.6 in)

