

1710-2690 | 1710-2690 MHz

6177208G

6177208NG

2-Band | 4-Port | XPOL | Panel Antenna | Variable Tilt | 2077 mm

- Dual band antenna, dual polarisation, 4 connectors
- Independent tilt on each band 0-6° / 0-6°
- RET version 3GPP, AISGv2.0
- 2 Integrated RET Units (field replaceable)

ACCESS PORT DESCRIPTION (CONNECTORS)			
This antenna has 4 colour-coded connectors located at the bottom face.			
Frequency Designation	Y1	Y2	
Frequency Range	1710-2690 MHz	1710-2690 MHz	
Polarisation	ХроІ	Xpol	
Horizontal Beamwidth	65°	65°	
Electrical Downtilt Range	0-6°	0-6°	
Connector Type	(2x) 4.3-10 Female or 7/16 DIN Female	(2x) 4.3-10 Female or 7/16 DIN Female	

ORDERING OPTIONS Select from the different options listed below

SELECT ELECTRICAL DOWNTILT CONTROL & AISG PROTOCOL	SELECT ACTUATOR	SELECT CONNECTOR TYPE	ANTENNA MODEL NUMBER
Manual Electrical Tilt (MET)		4.3-10 Female	6177208N
		7/16 DIN Female	6177208
Remote Electrical Tilt (RET)	Multi-Device Control Unit	4.3-10 Female	6177208NG
AISG v2.0 / 3GPP	(MDCU)	7/16 DIN Female	6177208G

ELECTRICAL CHARACTERISTICS				Y1, Y2		
Frequency Bands		1710-2690 MHz				
		1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain	At Mid Tilt	19 dBi	19.5 dBi	19.8 dBi	20.1 dBi	20.6 dBi
	Over All Tilts	19.0 ± 0.5 dBi	19.3 ± 0.5 dBi	19.6 ± 0.5 dBi	20.0 ± 0.5 dBi	20.5 ± 0.5 dBi
Input Impedance		50Ω				
VSWR		< 1.5				
Return loss		> 14 dB				
Polarisation		±45°				
Horizontal Beamwidth (-3 dB)		66° ± 2.9°	64° ± 2.7°	63° ± 2.8°	61° ± 2.9°	58° ± 2.9°
Vertical Beamwidth (-3 dB)		4.6° ± 0.4°	4.3° ± 0.4°	4.1° ± 0.5°	3.8° ± 0.4°	3.4° ± 0.4°
Electrical Downtilt Range				0-6°		
Cross Polar Isolation		> 28 dB				
Port-to-Port Isolation		> 28 dB				
Upper Sidelobe	Typical	> 17 dB				
Suppression	Peak to 20°	> 16 dB	> 16 dB	> 15 dB	> 15 dB	> 14 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 26 dB	> 26 dB	> 27 dB	> 27 dB	> 27 dB
Cross Polar	Main Direction	> 20 dB	> 21 dB	> 22 dB	> 20 dB	> 20 dB
Discrimination	Sector Edges	> 10 dB	> 10 dB	> 11 dB	> 10 dB	> 10 dB
Maximum Power (Per Port)		250 W				
Intermodulation 3rd Order (2x43 dBm Carrier)		< -153 dBc				
Grounding		DC Ground				
			0 1 1	I I NICAAN		





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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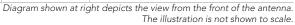
6177208NG

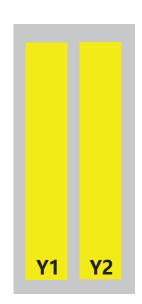
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INTEGRATED RET PROPERTIES		
Protocol	Compliant with 3GPP/AISGv2.0	
Power Supply	10-30VDC	
Adjustment Time (Full Range)	≤ 90 sec (typical, depending on antenna type)	
Power Consumption	< 2W (Idle); < 10 W (In Motion)	
Accuracy	≤ 0.5°	
Hardware Interface	Pin3: RS485B; Pin5: RS485A; Pin6: 10-30V; Pin7: DC Return	
Safety Standard	Compliant to EN 60950/UL 60950/ RoHS, CE	
Adjustment Cycles	> 20,000	
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 k IEC61312-1 B Protection against lightning electromagnetic impulse 10/350 μs, 2		
Connectors	(2x) 8-Pin Circle Connector According to IEC 60130-9 and AISG Daisy Chain In: Male; Daisy Chain Out: Female	



'OUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
YY LAY	☐ Y1	1710-2690	1-2	4.3-10 Female or 7/16 DIN Feamle
ARR/	<mark>□</mark> Y2	1710-2690	3-4	4.3-10 Female or 7/16 DIN Feamle







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PACKAGING

Carton Box

2.397 x 0.352 x 0.207 m (94.3 x 13.8 x 8.1 in)

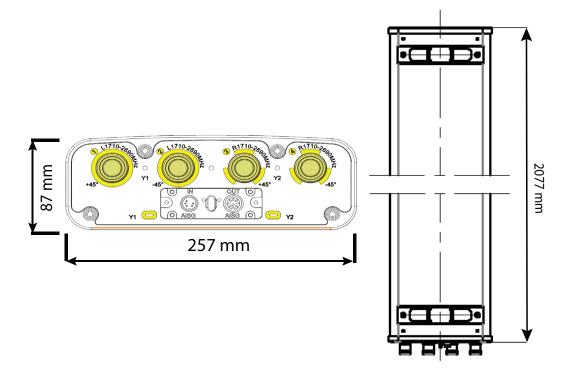
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MECHANICAL CHARACTERISTICS			
Dimensions (Height x Width x Depth)		2077 x 257 x 87 mm (81.7 x 10.1 x 3.4 in)	
Weight (excludin	g mounting accessory)	15.5 kg (34.1 lbs)	
Weight with brad	ckets	20 kg (44.0 lbs)	
Radome Material		UPVC	
Maximum Wind Speed		200 km/h (124.3 mph)	
	Front	495 N (111.2 lbf)	
Wind Load at 150 km/h	Rear	550 N (123.6 lbf)	
	Lateral	205 N (46.0 lbf)	

MOUNTING KIT OPTIONS	POLE DIAMETER	MECHANICAL TILT			
All mounting bracket kits are ordered separately unless otherwise indicated.					
Mounting and Downtilt Bracket Kit (Included) Ø50-Ø125 mm (Ø2.0-Ø4.9 in) 0-12°					



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