

6130108NG

2-Band, 4-Port, 30°, XPOL, Panel Antenna, Variable Tilt, 2497 mm

- Twin band antenna, Dual polarisation, 4 connectors
- Independent, continuously adjustable tilt on each band 0-6° / 0-6°
- RET version, 3GPP/AISG2.0 with two integrated RCUs

ACCESS PORT DESCRIPTION (CONNECTORS)

The antenna has 4 colour-coded connectors located at the bottom face.

Frequency Designation	Y1	Y2
Frequency Range	1710-2690 MHz	1710-2690 MHz
Polarisation	Xpol	Xpol
Horizontal Beamwidth	30°	30°
Electrical Downtilt Range	0-6°	0-6°
Connector Type	(2x) 4.3-10 Female	(2x) 4.3-10 Female

ELECTRICAL CHARACTERISTICS

		Y1 , Y2		
Frequency Bands		1710-2690 MHz		
		1710-1880 MHz	1920-2170 MHz	2500-2690 MHz
Gain	at Mid Tilt	21.5 dBi	22.5 dBi	23.5 dBi
	Over All Tilts	21.5 ± 0.6 dBi	22.5 ± 0.6 dBi	23.5 ± 0.6 dBi
Input Impedance		50Ω		
VSWR		< 1.5		
Return Loss		> 14 dB		
Polarisation		±45°		
Horizontal Beamwidth (-3 dB)		38° ± 3°	34° ± 3°	28° ± 3°
Vertical Beamwidth (-3 dB)		4.5° ± 0.5°	4.0° ± 0.5°	3.1° ± 0.5°
Electrical Downtilt Range		0-6°		
Cross-Polar Isolation		> 28 dB		
Interband Isolation		> 28 dB		
Port-to-Port Isolation		> 28 dB		
First Upper Sidelobe Suppression		> 16 dB	> 16 dB	> 16 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 27 dB	> 27 dB	> 27 dB
Cross Polar Discrimination at Main Direction (0°)		> 15 dB	> 15 dB	> 15 dB
Lightening Protection		DC Ground		
Maximum Power (Per Port)		250 W (at 50° C ambient temperature)		
Intermodulation 3rd (2x43 dBm Carrier)		< -150 dBc		

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

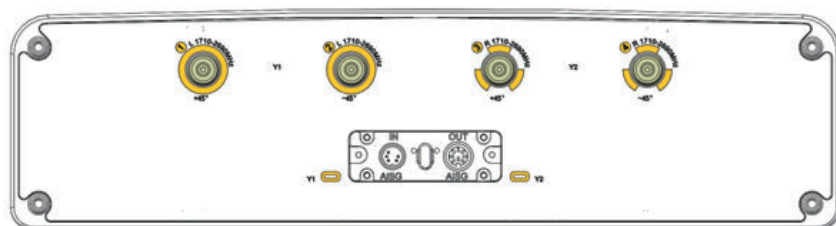


Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our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

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INTEGRATED RET PROPERTIES	
Protocols	Compliant With AISGV2.0 And 3GPP
Supply Voltage, VDC	10–30DC
Adjustment Time(Full Range)	≤ 90 s (typical, depending on Antenna type)
Power Consumption	< 2W (standby); < 10W (motor actived)
Angular Accuracy for shaft turn	Angular Accuracy ≤ 0.5 deg
Hardware Interface	RS485 And Power
Safety Standard	Compliant to EN 60950/UL 60950/ RoHs (Restriction of Hazardous Substances), CE
Remote control	Can management from OMC, BTS/NodeB
Lifetime/Adjustment Cycles	> 20000
Torque Max.	≥ 160mN.m
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 8kA
Daisy chaining method	Ready for daisy-chaining
Housing Material	Aluminum
Housing Color	Aluminum Silver
Mounting	Directly onto Antenna
Connectors	2 x 8 Pin Circle Connector According To IEC 60130-9 And AISG. Daisy Chain In : Male, Daisy Chain Out : Female Pin3:RS485+; Pin5:RS485-; Pin6:10~30V; Pin7:GND Female connector: 8 PINs ,Male connector: 5 PINs.
Operating Temperature range	-40°C to +70°C



Y1

Y2

ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	Y1	1710-2690	1-2	4.3-10 Female
	Y2	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)		2497 x 497 x 127 mm (98.3 x 19.6 x 5.0 in)	Carton Box 2.697 x 0.592 x 0.247 m (106.2 x 23.3 x 9.7 in)
Weight (excluding mounting accessory)		33.5 kg (73.9 lbs)	
Weight with mounting accessory		41 kg (90.4 lbs)	
Radome Material		Fiberglass (UV resistant)	
Operating Temperature		-40°C to +60°C	
Maximum Wind Speed		200 km/h	
Wind Loads (at 150 km/h)	Frontal	1145 N (257.4 lbf)	
	Rear	1280 N (287.8 lbf)	
	Lateral	360 N (80.9 lbf)	
MOUNTING KIT OPTIONS		POLE DIAMETER	MECHANICAL TILT
All mounting bracket kits are ordered separately unless otherwise indicated.			
Mounting Bracket Kit (Included)		Ø50-Ø125 mm	0-8°

