

6106188NG

4-Port, 33°, XPOL, Panel Antenna, Variable Tilt, 1497 mm

- Single band antenna, Dual polarisation, 4 connectors
- Variable tilt on band 0-10° / 0-10°
- RET version, 3GPP/AISG2.0 with one 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	33°	33°
Electrical Downtilt Range	0-10°	0-10°
Connector Type	(2x) 4.3-10 Female	(2x) 4.3-10 Female

ELECTRICAL CHARACTERISTICS

		Y1, Y2				
Frequency Bands		1710-2690 MHz				
		1710-1880 MHz	1850-1990 MHz	1920-2170 MHz	2300-2400 MHz	2490-2690 MHz
Gain	at Mid Tilt	20.0 dBi	20.1 dBi	20.5 dBi	21.1 dBi	21.0 dBi
	Over All Tilts	20.0 ± 0.5 dBi	20.0 ± 0.5 dBi	20.4 ± 0.5 dBi	21.0 ± 0.5 dBi	20.9 ± 0.5 dBi
Input Impedance		50 Ω				
VSWR		< 1.5				
Return Loss		> 14 dB				
Polarisation		± 45°				
Horizontal Beamwidth (-3 dB)		36° ± 2.5°	34° ± 2.5°	32° ± 2.5°	28° ± 2.5°	26° ± 2.5°
Vertical Beamwidth (-3 dB)		7.0° ± 0.7°	6.7° ± 0.7°	6.3° ± 0.7°	5.4° ± 0.5°	5.0° ± 0.5°
Electrical Downtilt Range		0-10°				
Cross-Polar Isolation		> 28 dB				
Port to Port Isolation		> 28 dB				
First Upper Side Lobe Suppression		> 16 dB	> 16 dB	> 16 dB	> 16 dB	> 16 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 28 dB	> 28 dB	> 28 dB	> 28 dB	> 28 dB
Cross Polar Discrimination at Boresight		> 20 dB	> 20 dB	> 20 dB	> 20 dB	> 20 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 11.1 recommendation.

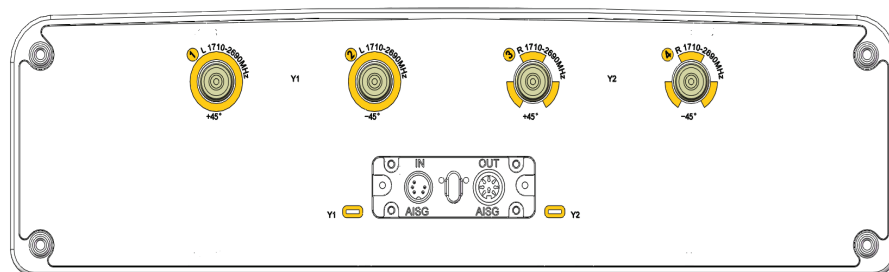


Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our 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	10–30 DC
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
Humidity	Up to 95
IP Rating	IP65
Housing Color	Silvery white
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 +60°C



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		
Dimensions (Height x Width x Depth)	1497 x 497 x 127 mm (58.9 x 19.5 x 5.0 in)	
Weight (excluding mounting accessory)	16.5 kg (36.3 lbs)	
Weight with mounting accessory	20.5 kg (46.1 lbs)	
Radome Material	Fiberglass	
Operating Temperature	-40°C to +60°C	
Maximum Wind Speed	200 km/h	
Wind Loads (at 150 km/h)	Frontal	690 N (155.1 lbf)
	Rear	770 N (173.1 lbf)
	Lateral	215 N (48.3 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
		0-12°

PACKAGING

Carton Box
1.677 x 0.592 x 0.247 m
(66.0 x 23.3 x 9.7 in)

