

6106388NG

1-Band, 2-Port, 33°, XPOL, Panel Antenna, Variable Tilt, 1397 mm

- Single band antenna, Dual polarisation, 2 connectors
- Variable tilt on band 0-10°
- RET version, 3GPP/AISG2.0 with one integrated RCU

ACCESS PORT DESCRIPTION (CONNECTORS)

The antenna has 2 colour-coded connectors located at the bottom face.

Frequency Designation	Y1
Frequency Range	1710-2690 MHz
Polarisation	Xpol
Horizontal Beamwidth	33°
Electrical Downtilt Range	0-10°
Connector Type	(2x) 4.3-10 Female

ELECTRICAL CHARACTERISTICS

		Y1				
		1710-2690 MHz				
Frequency Bands		1710-1880 MHz	1850-1990 MHz	1920-2170 MHz	2300-2400 MHz	2490-2690 MHz
Gain	at Mid Tilt	19.5 dBi	19.7 dBi	20.0 dBi	20.3 dBi	20.5 dBi
	Over All Tilts	19.4 ± 0.6 dBi	19.6 ± 0.6 dBi	19.9 ± 0.6 dBi	20.2 ± 0.5 dBi	20.4 ± 0.7 dBi
Input Impedance		50Ω				
VSWR		< 1.5				
Return Loss		> 14 dB				
Polarisation		±45°				
Horizontal Beamwidth (-3 dB)		36° ± 3.1°	35° ± 2.9°	33° ± 3.1°	32° ± 2.9°	30° ± 3.1°
Vertical Beamwidth (-3 dB)		6.9° ± 0.5°	6.7° ± 0.5°	6.2° ± 0.5°	5.4° ± 0.4°	4.9° ± 0.3°
Electrical Downtilt Range		0-10°				
Cross-Polar Isolation		> 28 dB				
Tilt Accuracy		< 0.7°	< 0.6°	< 0.7°	< 0.7°	< 0.8°
Upper Sidelobe Suppression	First Upper Lobe	> 16 dB	> 16 dB	> 16 dB	> 15 dB	> 15 dB
	Peak to 20°	> 15 dB	> 15 dB	> 15 dB	> 15 dB	> 14 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 28 dB	> 29 dB	> 30 dB	> 30 dB	> 30 dB
Cross Polar Discrimination at Boresight		> 20 dB	> 21 dB	> 22 dB	> 21 dB	> 20 dB
Azimuth Beam Port-to-Port Tracking		< 1.8 dB	< 2.0 dB	< 2.0 dB	< 2.0 dB	< 2.0 dB
Lightening Protection		DC Ground				
Maximum Power (Per Port)		250 W (at 50° C ambient temperature)				
Intermodulation 3rd (2x43 dBm Carrier)		< -153 dBc				

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

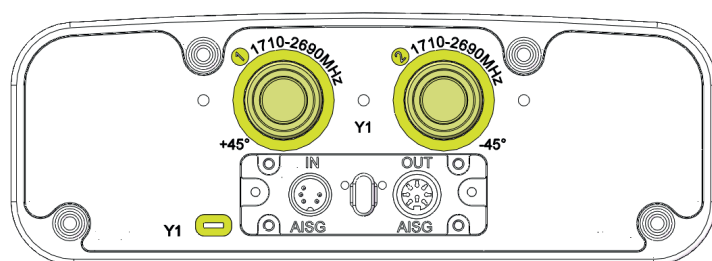


Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our 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	< 1W (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	> 10000
Torque Max.	≥ 160mN.m
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 10/350 μs 10 Repetitions Min. @ ≥ 2.5kA
Daisy chaining method	Ready for daisy-chaining
Housing Material	Aluminum
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

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)		1397 x 257 x 87 mm (55.0 x 10.1 x 3.4 in)	Carton Box 1.577 x 0.352 x 0.207 m (62.1 x 13.8 x 8.1 in)
Weight (excluding mounting accessory)		10.5 kg (23.1 lbs)	
Weight with mounting accessory		13.5 kg (29.7 lbs)	
Radome Material		UPVC	
Operating Temperature		-40°C to +60°C	
Maximum Wind Speed		200 km/h	
Wind Loads (at 150 km/h)	Frontal	425 N (95.5 lbf)	
	Lateral	470 N (105.6 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	0-16°

