

6208718v

4-Band, 8-Port, 35°, XPOL, Panel Antenna, Variable Tilt, 2199 mm

- Tetra band antenna, Dual polarisation, 8 connectors
- Independent, continuously adjustable tilt on each band 2-12° / 2-12° / 2-12° / 2-12°
- RET version, 3GPP/AISG2.0 with four integrated RCUs

ACCESS PORT DESCRIPTION (CONNECTORS)

The antenna has 8 colour-coded connectors located at the bottom face.

Frequency Designation	Y1	Y2	Y3	Y4
Frequency Range	1710-2690 MHz	1710-2690 MHz	1710-2690 MHz	1710-2690 MHz
Polarisation	Xpol	Xpol	Xpol	Xpol
Horizontal Beamwidth	35°	35°	35°	35°
Electrical Downtilt Range	2-12°	2-12°	2-12°	2-12°
Connector Type	(2x) 7/16 DIN Female	(2x) 7/16 DIN Female	(2x) 7/16 DIN Female	(2x) 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	6208718Nv
		7/16 DIN Female	6208718v
Remote Electrical Tilt (RET) AISG v2.0 / 3GPP	Multi-Device Control Unit (MDCU)	4.3-10 Female	6208718NGv
		7/16 DIN Female	6208718Gv

ELECTRICAL CHARACTERISTICS

Y1, Y2, Y3, Y4

Frequency Bands		1710-2690 MHz		
		1710-1880 MHz	1920-2170 MHz	2500-2690 MHz
Gain	at Mid Tilt	18.6 dBi	19.1 dBi	19.8 dBi
	Over All Tilts	18.6 ± 0.3 dBi	19.1 ± 0.3 dBi	19.8 ± 0.3 dBi
Input Impedance		50Ω		
VSWR		< 1.5		
Return Loss		> 14 dB		
Polarisation		±45°		
Horizontal Beamwidth (-3 dB)		38° ± 3°	35° ± 3°	29° ± 3°
Azimuth Beam centers		±30°	±30°	±30°
Vertical Beamwidth (-3 dB)		7.5° ± 0.5°	7.3° ± 0.5°	5.5° ± 0.5°
Electrical Downtilt Range		2-12°		
Cross-Polar Isolation		Same beam: ≥ 25 dB		
Interband Isolation		≥ 25 dB		
Beam to Beam Isolation		≥ 25 dB		
First Upper Sidelobe Suppression		> 16 dB	> 16 dB	> 16 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 28 dB	> 28 dB	> 28 dB
Cross Polar Discrimination at Boresight		> 15 dB	> 15 dB	> 15 dB
Lightening Protection		DC Ground		
Maximum Power (Per Port)		200 W (at 50° C ambient temperature)		
Intermodulation 3rd (2x43 dBm Car-		< -150 dBc		

Standard values based on NGMN-P-BASTA version 11.1 recommendation.

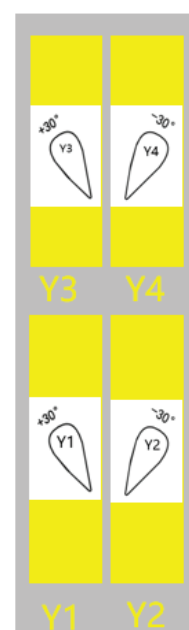
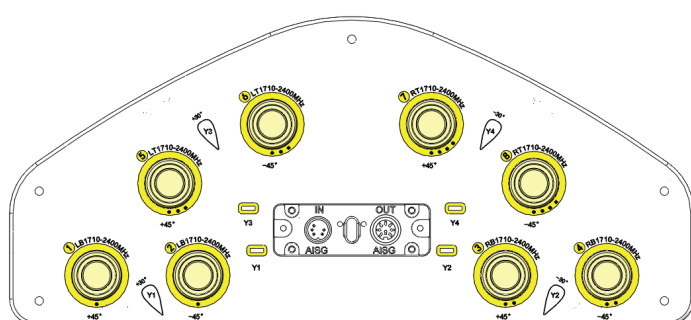


Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our 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	10–30DC
Adjustment Time(Full Range)	≤ 90 s (typical, depending on Antenna type)
Power Consumption	< 2W (standby); < 10W (motor activated)
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	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 +70°C



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ Y1	1710-2690	1-2	7/16 DIN Female
	■ Y2	1710-2690	3-4	7/16 DIN Female
	■ Y3	1710-2690	5-6	7/16 DIN Female
	■ Y4	1710-2690	7-8	7/16 DIN Female

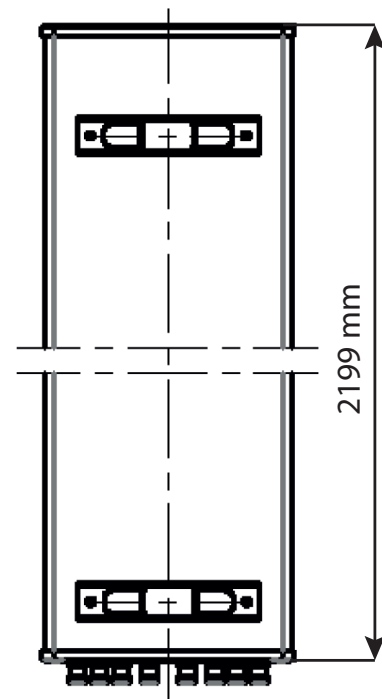
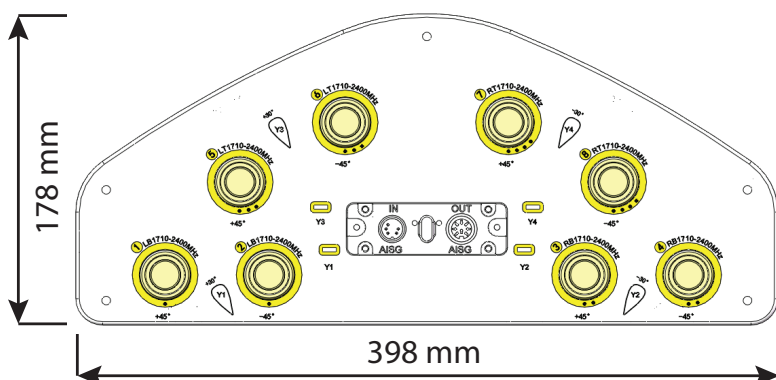
Diagram shown at right depicts the view from the front of the antenna. The illustration is not shown to scale.

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MECHANICAL CHARACTERISTICS		PACKAGING
Dimensions (Height x Width x Depth)	2199 x 398 x 178 mm (86.5 x 15.6 x 7.0 in)	Carton Box 2.379 x 0.493 x 0.298 m (93.6 x 19.4 x 11.7 in)
Weight (excluding mounting accessory)	30 kg (66.1 lbs)	
Weight with mounting accessory	34 kg (74.9 lbs)	
Radome Material / Colour	Fiber Glass, UV Resistant / Light Grey	
Operating Temperature	-40°C to +60°C	
Maximum Wind Speed	200 km/h	
Wind Loads (at 150 km/h)	Frontal	810 N (182.1 lbf)
	Rear	905 N (203.4 lbf)
	Lateral	445 N (100.1 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 (Ø1.9-Ø4.9 in)	0-12°



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