

## 6208712EGv

Dual Band | Twin Beam | 8-Port | Panel Antenna | (2x) X-Pol | 35° | 2200 mm

- Dual band, Twin beam antenna, Dual polarisation, 8 connectors
- Independent tilt on each band 2-12°
- RET version, 3GPP/AISG2.0 with integrated RCU
- Mounting and downtilt brackets included

PRODUCT OVERVIEW	Frequency Range (MHz)	1695-2690	1695-2690	1695-2690	1695-2690
	Array	■ Y1	■ Y2	■ Y3	■ Y4
	Connector Position	1-2	3-4	5-6	7-8
	Polarization	XPOL	XPOL	XPOL	XPOL
	Azimuth Beamwidth	35°	35°	35°	35°
	Electrical Downtilt	2-12°	2-12°	2-12°	2-12°
	Dimensions	2200 x 398 x 159 mm			



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### ELECTRICAL SPECIFICATIONS Ultra Wide Band

■ Y1, Y2, Y3, Y4

Frequency Range		MHz	1695-2690		
		MHz	1695-1880	1920-2180	2490-2690
Polarization		---	±45°		
Gain	Over all Tilts	dBi	18.0 ± 0.5	18.5 ± 0.5	19.0 ± 0.5
Azimuth Beamwidth		degrees	37.0° ± 3.0°	35.0° ± 3.0°	31.0° ± 3.0°
Elevation Beamwidth		degrees	8.0° ± 0.3°	7.0° ± 0.3°	6.0° ± 0.3°
Horizontal Beam Pointing		---	-32.5°, +32.5°	-32.0°, +32.0°	-31.5°, +31.5°
Electrical Downtilt		degrees	2°-12°		
Impedance		Ohms	50		
VSWR		---	≤ 1.5		
Passive Intermodulation		dBc	< -150		
Front-to-Back Ratio, Total Power, ±35°		dB	> 28	> 30	> 32
First Upper Sidelobe Suppression		dB	> 16	> 16	> 16
Upper Sidelobe Suppression, Peak to 20°		dB	> 15	> 15	> 15
Cross Polar Discrimination @ Main Direction (0°)		dB	> 15	> 15	> 15
Maximum Effective Power Per Port		Watts	200 W		
Port to Port Isolation		dB	≥ 25		

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

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### ELECTRICAL DOWNTILT CONTROL

For multiband antennas, electrical downtilt for each band can be controlled separately.

Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector color. The manual tilt 'override' function is always available with no need to remove the physical RET motor.
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) inserted in the bottom of the antenna. See details below and refer to the ordering options to see which actuators are available with this particular antenna. A single actuator individually controls the tilt of each band (no need for daisy chain cables between the bands). This module does not add any additional length to the antenna.

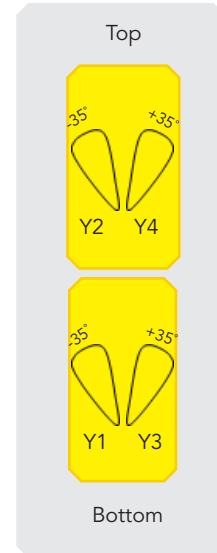
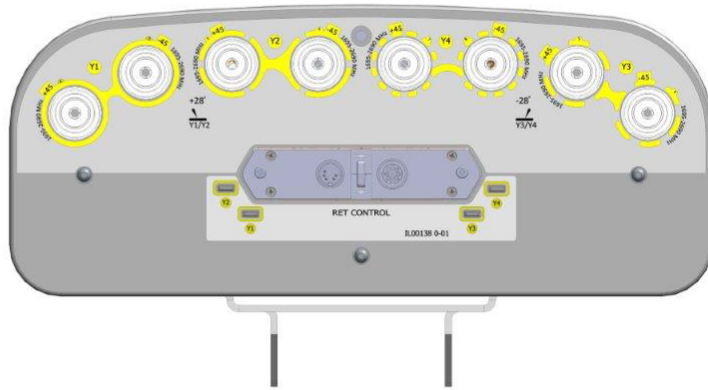
### INTEGRATED RET PROPERTIES

Protocols	Compliant With AISGV2.0 And 3GPP
Power Supply	10-30VDC
Power Consumption	< 1W (Idle), < 10W (In Motion)
Angular Accuracy	≤ 0.5 deg
Hardware Interface	RS485 And Power
Safety Standard	Compliant to EN 60950/UL 60950/RoHS, CE
Remote Control	Can management from OMC, BTS/NodeB
Adjustment Time (Full Range)	≤ 90 s (typical, depending on Antenna type)
Adjustment Cycles	> 20,000
Torque Max	≥ 160 mN.m
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8kA (8/20 μs), 2.5 kA (10/350 μs)
Housing Material	Aluminum
Housing Color	Silvery white
Mounting	Directly onto Antenna
Protection Class	IP65
Operating Temperature	-40° to +60° C
Weight	≤ 500 g
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

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ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ Y1	1695-2690	1-2	4.3-10 Female or 7/16 DIN Female Standard Neck
	■ Y2	1695-2690	3-4	4.3-10 Female or 7/16 DIN Female Standard Neck
	■ Y3	1695-2690	5-6	4.3-10 Female or 7/16 DIN Female Standard Neck
	■ Y4	1695-2690	7-8	4.3-10 Female or 7/16 DIN Female Standard Neck

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

### MECHANICAL SPECIFICATIONS

Length	mm (in)	2200 (86.6)	
Width	mm (in)	398 (15.6)	
Depth	mm (in)	159 (6.2)	
Net Weight - Antenna Only	kg (lbs)	≈30 (66.1)	
Mechanical Distance Between Mounting Points	mm (in)	Refer to Diagram	
Survival Wind Speed	km/h	200 (124)	
Windload (EN 1991-1-4:2005 using Wind Tunnel Coefficients)	Calculation	km/h	150 (93.2)
	Frontal	N (lbf)	970 (218.0)
	Lateral	N (lbf)	450 (101.1)
Reflector Material	---	Aluminium	
Radiator Material	---	Aluminium and Low loss circuit board	
Radome Material	---	Fiberglass (UV, Resistant)	
Radome Color	---	Gray RAL7035	

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### ENVIRONMENTAL SPECIFICATIONS

Environmental Standard	---	ETS 300 019
Lightning Protection	---	Direct Ground
Operating Temperature	° C (° F)	-40° to +60° (-40° to 140°)
Product Environmental Compliance	---	Product is RoHs Compliant

### ACCESSORIES All accessories are ordered separately unless otherwise indicated

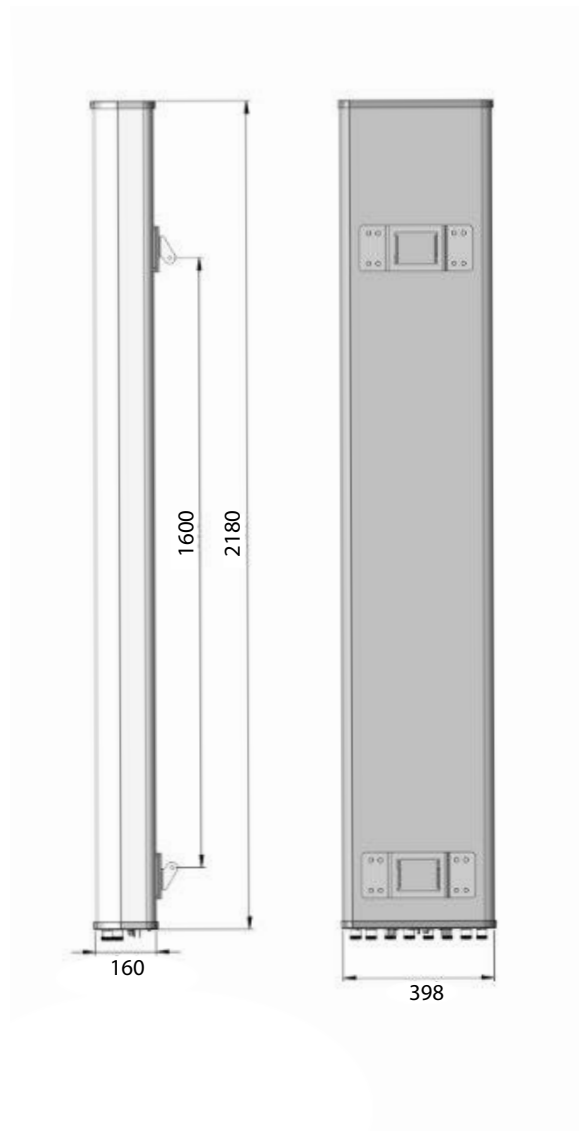
ITEM	MODEL NUMBER	WEIGHT
Brackets for pole Ø48 to Ø115 mm (Ø1.9 to Ø4.5 in) <b>delivered as standard</b>	IA00181	3.4 kg (7.5 lbs)
Kit to add mechanical tilt (0° to 10°) to above brackets <b>optional</b>	0900397/00	3.0 kg (6.6 lbs)

Wall mounting brackets are available upon request

### INSTALLATION Please read all installation notes before installing this product.



- Always attach the antenna by all mounting points.
- Do not install the antenna with the connectors facing upwards.



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