

65°

2487 mm

6820308G

6820308NG

1-Band, 2-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2487 mm

- Single band antenna, dual polarisation, 2 connectors
- Continuously adjustable tilt 1-10°
- RET version, 3GPP/AISG2.0 with one integrated RCUs
- Available with 4.3-10 or 7/16-DIN connectors

ш	Frequency Range (MHz)	690-960
	Array	■ R1
	Connector	1-2
	Polarization	XPOL
	Azimuth Beamwidth (avg)	65°
	Electrical Downtilt	1-10°
	Dimensions	2487 x 277 x 167 mm

ORDERING OPTIONS Select from the different options listed below

SELECT ELECTRICAL DOWNTILT CONTROL & AISG PROTOCOL	SELECT CONNECTOR TYPE	ANTENNA MODEL NUMBER
Remote Electrical Tilt (RET)	4.3-10 Female	6820308NG
AISG v2.0 / 3GPP	7/16-DIN Female	6820308G

ELECTRICAL SPECIFICATIONS Lo	w Band	■ R1	
Frequency Range	MHz	690-960	

Frequency Range		MHz	690-960		
		MHz	690-806	790-894	880-960
Polarization			±45°		
Gain I	lid Tilt	dBi	16.3	16.8	17.1
С	ver all Tilts	dBi	16.3 ± 0.6	16.8 ± 0.5	17.1 ± 0.6
Azimuth Beamwidth		degrees	68° ± 3.9°	66° ± 3.8°	64° ± 3.5°
Elevation Beamwidth		degrees	9.0° ± 0.7°	8.3° ± 0.6°	7.2° ± 0.6°
Electrical Downtilt		degrees	1°-10°		
Impedance		Ohms	50		
VSWR			< 1.5		
Passive Intermodulation 3rd Order for2 x 43 dBm Carrier		dBc	< -153		
Front-to-Back Ratio, Total Power, ±30°		dB	> 23	> 25	> 26
Upper Sidelobe Suppression (typical)		dB	> 17	> 17	> 16
Upper Sidelobe Suppression, Peak to 20°		dB	> 15	> 15	> 15
Cross Polar Ratio	Main Direction (0°)	dB	> 23	> 25	> 26
	Sector Edges (±60°)	dB	> 18	> 19	> 19
Maximum Average Input Power (50° C ambient temperature)		Watts	250 W		
InterBand Isolation		dB	> 28		



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

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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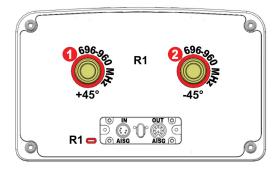
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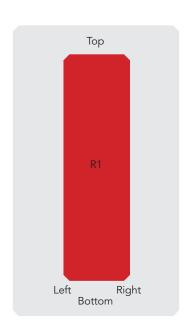
INTEGRATED RET PROPERTIES

Connectors	(2x) 8-Pin Circle Connector According to IEC 60130-9 and AISG Daisy Chain In: Male; Daisy Chain Out: Female Pin 3: RS485+; Pin 5: RS485-; Pin 6: 10~30V; Pin 7: GND Female Connector: 8 PINs, Male Connector 5-PINs
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 8 kA
Torque Max	≥ 160 mN.m
Adjustment Cycles	> 10,000
Adjustment Time (Full Range)	≤ 90 s (typical, dependent on antenna type)
Protocol Supported	AISG v2.0 and 3GPP
Hardware Interface	RS485 and Power
Power Consumption	< 1W (Idle), < 10W (In Motion)
Power Supply	10-30VDC Compliant with 3GPP/AISGv2.0



LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
ARRAY	■ R1	690-960	1-2	4.3-10 Female or 7/16-DIN Female







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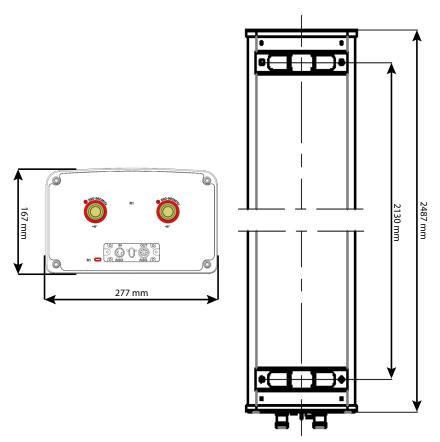
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MECHANICAL SPECIFICATIONS

Length		mm (in)	2487 (97.9)	
Width		mm (in)	277 (10.9)	
Depth		mm (in)	167 (6.6)	
Net Weight - Antenna Only		kg (lbs)	21.5 (47.4)	
Survival Wind Speed		km/h (mph)	200 (124.3)	
Wind Load	Front	N (lbf)	690 (155.1)	
at 150 km/h	Lateral	N (lbf)	770 (173.1)	
Radome Material			UPVC	
Lightning Protection			Direct Ground	
SHIPPING Dimensions		mm (in)	2687 x 372 x 287 (105.8 x 14.6 x 11.3)	

ACCESSORIES All accessories are ordered separately unless otherwise indicated

ITEM	MECHANICAL TILT
Brackets for pole Ø50 to Ø125 mm (Ø2.0 to Ø4.9 in) <i>Included - delivered as standard</i>	0-10°



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