

6818308G

6818308NG

1-Band, 2-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1987 mm

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

PRODUCT OVERVIEW	Frequency Range (MHz)	698-960
	Array	■ R1
	Connector	1-2
	Polarization	XPOL
	Azimuth Beamwidth (avg)	65°
	Electrical Downtilt	0-10°
	Dimensions	1987 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) AISG v2.0 / 3GPP	4.3-10 Female	6818308NG
	7/16-DIN Female	6818308G

ELECTRICAL SPECIFICATIONS

Low Band

■ R1

Frequency Range	MHz	698-960				
	MHz	698-806	790-862	824-894	880-960	
Polarization	---	±45°				
Gain	Mid Tilt	dBi	15.3	15.7	16.1	16.3
	Over all Tilts	dBi	15.3 ± 0.6	15.7 ± 0.5	16.1 ± 0.5	16.3 ± 0.6
Azimuth Beamwidth	degrees	67° ± 3.9°	65° ± 3.6°	64° ± 3.4°	63° ± 3.6°	
Elevation Beamwidth	degrees	11.0° ± 0.9°	10.0° ± 0.6°	9.7° ± 0.6°	9.5° ± 0.6°	
Electrical Downtilt	degrees	0°-10°				
Impedance	Ohms	50				
VSWR	---	< 1.5				
Passive Intermodulation 3rd Order for 2 x 43 dBm Carrier	dBc	< -153				
Front-to-Back Ratio, Total Power, ±30°	dB	> 23	> 24	> 25	> 25	
Upper Sidelobe Suppression (typical)	dB	> 16	> 16	> 16	> 15	
Upper Sidelobe Suppression, Peak to 20°	dB	> 15	> 15	> 15	> 15	
Cross Polar Ratio	Main Direction (0°)	dB	> 18	> 18	> 18	> 19
	Sector Edges (±60°)	dB	> 10.0	> 10.0	> 10.0	> 9.0
Maximum Average Input Power (50° C ambient temperature)	Watts	200 W				
InterBand Isolation	dB	> 28				

Standard values based on NGMN-P-BASTA version 9.6 recommendation.



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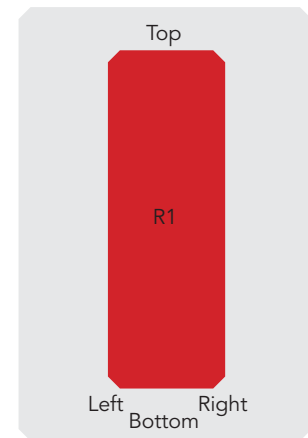
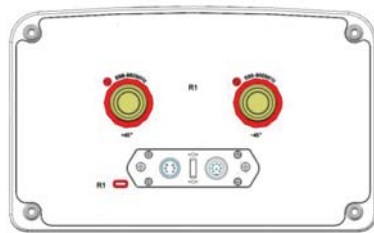
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INTEGRATED RET PROPERTIES

Power Supply	10-30VDC Compliant with 3GPP/AISGv2.0
Power Consumption	< 1W (Idle), < 10W (In Motion)
Hardware Interface	RS485 and Power
Protocol Supported	AISG v2.0 and 3GPP
Adjustment Time (Full Range)	≤ 90 s (typical, dependent on antenna type)
Adjustment Cycles	> 10,000
Torque Max	≥ 160 mN.m
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 8 kA
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



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ R1	698-960	1-2	4.3-10 Female or 7/16-DIN Female

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)	1987 (78.2)
Width	mm (in)	277 (10.9)
Depth	mm (in)	167 (6.6)
Net Weight - Antenna Only	kg (lbs)	13.5 (29.8)
Survival Wind Speed	km/h (mph)	200 (124.3)
Radome Color	---	Light Grey
Radome Material	---	Fiberglass
Lightning Protection	---	Direct Ground
SHIPPING	Dimensions	mm (in) 2210 x 362 x 267 (87.0 x 14.3 x 10.5)

ACCESSORIES

All accessories are ordered separately unless otherwise indicated

ITEM	WEIGHT	MECHANICAL TILT
Brackets for pole Ø50 to Ø125 mm (Ø2.0 to Ø4.9 in) Included - delivered as standard	4.5 kg (9.9 lbs)	0-12°

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