

2G4WF-21RV1

12 Port Antenna / 2L4H / 2.6m

PROSE

- 2×(698-960) + 4×(1695-2690) MHz
- Integrated RET (AISG 2.0 Compliant), Field Exchangeable
- 4.3-10 Connectors

Electrical Data (BASTA)

Frequency(MHz)		2×(698-960)			4×(1695-2690)					
		698-824	791-894	880-960	1695-1990	1920-2180	2300-2400	2490-2690		
Gain	R1/R2	Mid Tilt	dBi	15.6	15.7	15.7				
		Over All Tilts		15.5±0.6	15.6±0.5	15.6±0.5				
	Y1/Y2/Y3	Mid Tilt					17.1	17.3	17.6	17.9
	/Y4	Over All Tilts					17.0±0.7	17.2±0.7	17.5±0.6	17.8±0.5
Polarization			°	±45						

Horizontal Pattern

3dB Azimuth Beamwidth	°	66±6	65±5	65±5	68±6	64±6	61±6	60±5
Front to Back Ratio, 180°±30°	dB	> 25	> 25	> 26	> 27	> 28	> 28	> 26
Cross-Polar Discrimination								
At Mechanical Boresight 0°		> 20	> 20	> 18	> 16	> 18	> 19	> 20
Over Sector ±60°		> 9	> 8	> 7	> 10	> 7	> 5	> 4

Vertical Pattern

3dB Elevation Beamwidth	°	8.6±0.6	8.0±0.5	7.4±0.5	6.5±0.5	5.9±0.5	5.3±0.3	4.8±0.4
Electrical Downtilt		2-12			2-12			
1st Upper Sidelobe Suppression	dB	> 16			> 17			

RF Parameters

VSWR		< 1.5	
Intra - Cluster Isolation	dB	> 26	> 26
Inter - Cluster Isolation		> 26	> 26
3rd PIM(2 x 43 dBm)	dBc	< -153	
Impedance	Ω	50	
Maximum Effective Power per Port	W	300	250

— Maximum Effective Power Whole Antenna: 1200 W.

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Mechanical Data (BASTA)

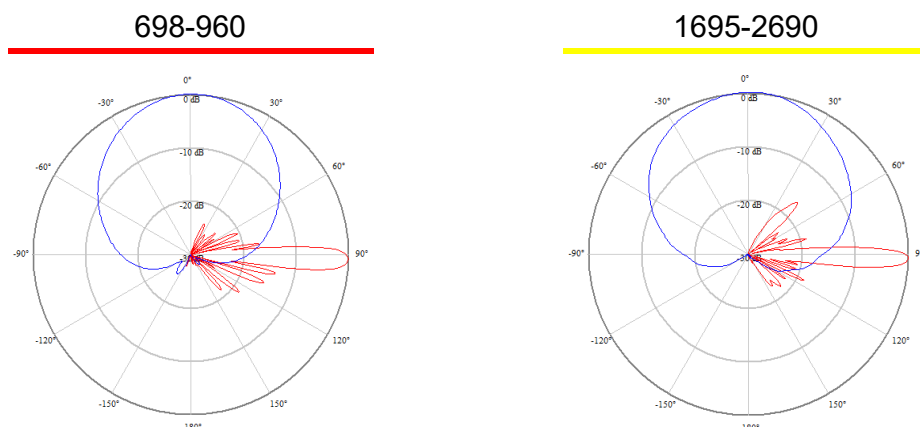
Connector Type	12 x 4.3-10 Female	
Connector Position	Bottom	
Lightning Protection	DC Ground	
Radome Material	Fiberglass	
Radome Color	Light Grey	
Antenna Net Weight	38.6 kg	85.09 lb
Shipping Weight	50.4 kg	111.11 lb
Antenna Dimensions (H x W x D)	2690 x 498 x 197 mm	105.9 x 19.6 x 7.8 in
Packing Size (H x W x D)	2825 x 575 x 370 mm	111.2 x 22.6 x 14.6 in
Survival Wind Speed	241 km/h	150 mph
Wind Load @150 km/h (Frontal / Lateral / Max)	1042 / 421 / 1263 N	234 / 95 / 284 lbf
Mast Diameter Supported	50 - 110 mm	2.0 - 4.3 in
Relative Humidity	5% - 95%	
Operating Temperature Range	-40 ~ +70 °C	-40 ~ +158 °F



RET Specification (BASTA)

Compatible Standards	AISG2.0/ 3GPP
Power Consumption	≤2(stand by); ≤13(operating)
Configuration Management	Integrated RET, pre-configured
Software Upgradability	True
Replaceability in Field	True

Pattern (Sample for reference)

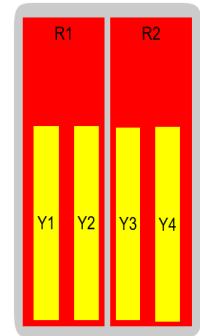
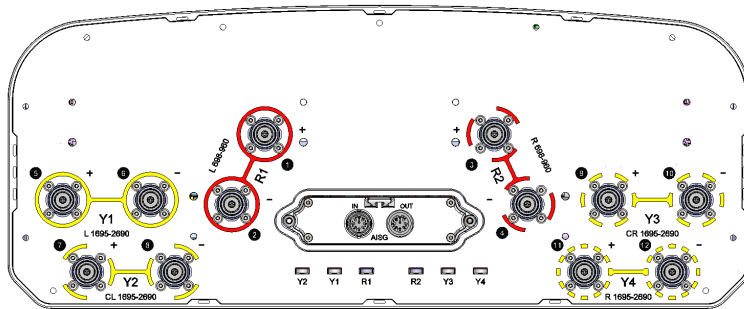


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Layout



Array	Connector	Frequency (MHz)	Sub Unit #	RET Type	RET Serial*
●R1	1 - 2	698-960	3	MRET	RB.....XYYxxxxx-MM
●R2	3 - 4	698-960	4	MRET	RB.....XYYxxxxx-MM
●Y1	5 - 6	1695-2690	2	MRET	RB.....XYYxxxxx-MM
●Y2	7 - 8	1695-2690	1	MRET	RB.....XYYxxxxx-MM
●Y3	9 - 10	1695-2690	5	MRET	RB.....XYYxxxxx-MM
●Y4	11 - 12	1695-2690	6	MRET	RB.....XYYxxxxx-MM

*Remark: X – Year, YY – Week , xxxxx – Serial Number

Accessories

Item	Model	Weight	Mechanical Tilt Range (°)
Mounting Kit	RAPMK-01	3.8 kg / 8.4 lb	0-10

Compliance

- Our quality assurance system and our environmental management system apply to the entire company and are certified according to EN ISO 9001, EN ISO 14001 and ISO45001
- Our products are compliant to the EU Directive RoHS as well as to other environmentally relevant regulations (e.g. REACH)



While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.