

2G4WHE-21RV1

12 Port Antenna / Hybrid 2L2TB / 2.0m

PROSE

- 2 x (698-960) + 4x (1710-2690) MHz
- Integrated RET (AISG 2.0 Compliant), Field Exchangeable
- 4.3-10 Connectors

Electrical Data (BASTA)

Frequency(MHz)		2 x (698-960)			4 x (1710-2690)			
		698-803	824-894	880-960	1710-1920	1920-2180	2300-2400	2490-2690
Gain	R1/R2 — Mid Tilt	dBi	14.5	14.8	14.9	/	/	/
	Over All Tilts		14.5±0.5	14.7±0.5	14.8±0.5	/	/	/
	Y2/Y3 — Mid Tilt		/	/	/	17.3	17.5	17.8
	Over All Tilts		/	/	/	17.3±0.5	17.5±0.5	17.7±0.5
	Y1/Y4 — Mid Tilt		/	/	/	17.0	17.3	17.3
	Over All Tilts		/	/	/	17.0±0.5	17.2±0.5	17.3±0.5
Polarization		°	±45					

Horizontal Pattern

3dB Azimuth Beamwidth	°	65±5	61±5	59±5	38±4	36±3	31±3	29±3
Beam Peak Position	dB	/	/	/	±25	±25	±25	±25
Front to Back Ratio, (180°±30°)		> 25	> 25	> 25	> 25	> 25	> 25	> 26
Cross-Polar Discrimination								
At Mechanical Boresight 0°	dB	> 19	> 20	> 19	> 16	> 19	> 16	> 16
Over Sector ±60°		> 10	> 9	> 9	> 10	> 10	> 8	> 8

Vertical Pattern

3dB Elevation Beamwidth	dB	10.2±1.1	9.2±1.0	8.6±1.0	8.3±0.8	7.3±0.6	6.5±0.6	5.9±0.6
Electrical Downtilt	°	2-12			2-12			
1st Upper Sidelobe Suppression	dB	> 15	> 16	> 16	> 16	> 16	> 16	> 16

RF Parameters

VSWR		< 1.5	
Intra - Cluster Isolation	dB	> 25	> 25
Beam Isolation		/	25
Inter - Cluster Isolation		R1, R2//Y1, Y2, Y3, Y4>25	
3rd PIM(2 x 43 dBm)	dBc	< -153	
Impedance	Ω	50	
Maximum Effective Power Per Port	W	300	200

— Maximum Effective Power Whole Antenna: 1000 W.

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Mechanical Data (BASTA)

Connector Type	12 x 4.3-10 Female	
Connector Position	Bottom	
Lightning Protection	DC Ground	
Reflector Material	Aluminum Alloy	
Radiator Material	Low Loss Circuit Board	
Radome Material	Fiberglass(UV Resistance)	
Radome Color	Light Grey	
Antenna Net Weight	32.0 kg	70.55 lb
Shipping Weight	42.0 kg	92.59 lb
Antenna Dimensions (H x W x D)	2070 x 498 x 197 mm	81.5 x 19.6 x 7.8 in
Packing Size (H x W x D)	2185 x 575 x 335 mm	86.0 x 22.6 x 13.2 in
Survival Wind Speed	241 km/h	150 mph
Wind Load @150 km/h (Frontal / Lateral / Max)	823 / 310 / 998 N	185 / 70 / 224 lbf
Mast Diameter Supported	241 mm	9.5 in
Relative Humidity	5% - 95%	
Operating&Storage Temperature Range	-40 ~ +70 °C	-40 ~ +158 °F



RET Specification (BASTA)

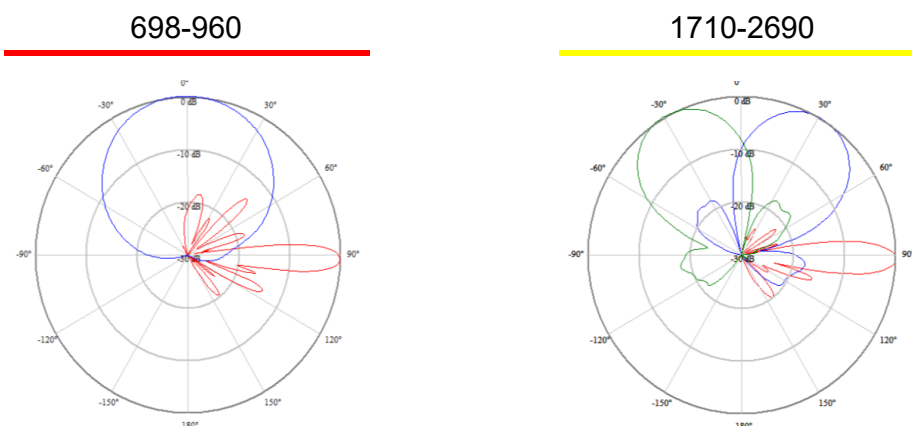
Compatible Standards	AISG2.0/ 3GPP
Power Consumption	≤2(stand by); ≤13(operating)
Configuration Management	Integrated RET, pre-configured
Software Upgradability	True
Replaceability in Field	True

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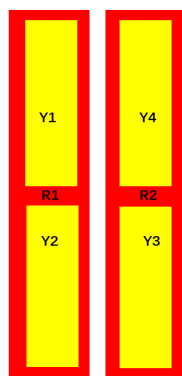
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Pattern (Sample for reference)



Layout



Array	Connector	Frequency (MHz)	Sub Unit #	RET Type	RET Serial*
●R1	1 - 2	698-960	1	MRET	RB.....XYYxxxxx-MM
●R2	3 - 4	698-960	6	MRET	RB.....XYYxxxxx-MM
●Y1	5 - 6	1710-2690	2	MRET	RB.....XYYxxxxx-MM
●Y2	7 - 8	1710-2690	3	MRET	RB.....XYYxxxxx-MM
●Y3	9 - 10	1710-2690	5	MRET	RB.....XYYxxxxx-MM
●Y4	11 - 12	1710-2690	4	MRET	RB.....XYYxxxxx-MM

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

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.