

2G2WC-21

8 Port Antenna / 2L2H / 1.5m

PROSE

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

Electrical Data (BASTA11.1)

Frequency(MHz)		2×(698-960)		2×(1695-2690)				
		698-896	880-960	1695-1880	1900-2200	2300-2400	2500-2690	
Gain	R1/R2 — Mid Tilt	dBi	13.5	13.9				
	Over All Tilts		13.4±0.7	13.8±0.6				
	Y1/Y2 — Mid Tilt				16.6	17.0	17.4	17.9
	Over All Tilts				16.5±0.7	16.9±0.3	17.3±0.4	17.8±0.5
Polarization		°	±45°					

Horizontal Pattern

3dB Azimuth Beamwidth	°	68±5	66±5	64±5	60±5	62±5	62±5
Front to Back Ratio, Total Power, 180°±30°	dB	> 20	> 22	> 24	> 24	> 22	> 23
Cross-Polar Discrimination							
At Mechanical Boresight 0°		> 18	> 18	> 18	> 18	> 18	> 18
Over Sector ±60°		> 7	> 7	> 6	> 6	> 4	> 4

Vertical Pattern

3dB Elevation Beamwidth	°	15.0±1.6	13.5±1.0	6.9±0.5	6.2±0.5	5.5±0.5	5.0±0.5
Electrical Downtilt		2-12		2-12			
1st Upper Sidelobe Suppression	dB	> 15		> 17			

RF Parameters

VSWR		< 1.5:1	
Intra - Cluster Isolation	dB	> 25	> 27
Inter - Cluster Isolation		> 25	> 25
3rd PIM(2 x 43 dBm)	dBc	< -153	
Impedance	Ω	50	
Maximum Effective Power per Port	W	300	250

— Maximum Effective Power Whole Antenna: 1000 W.

2G2WC-21

8 Port Antenna / 2L2H / 1.5m

PROSE

Mechanical Data (BASTA11.1)

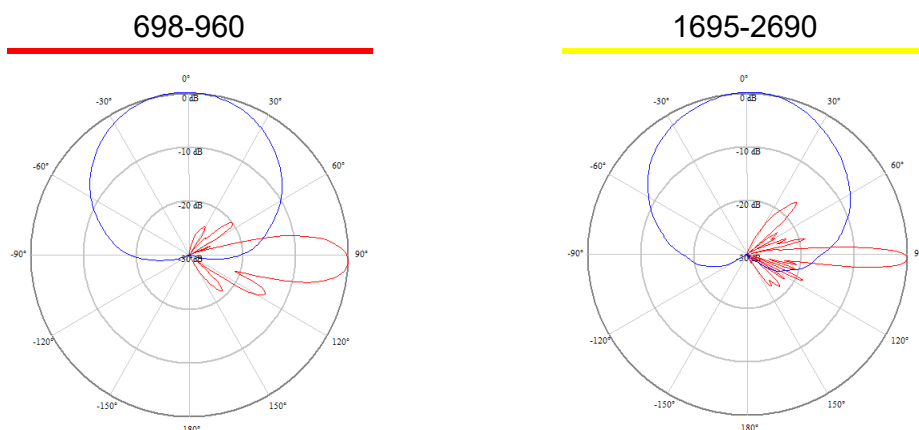
Connector Type	8 x 4.3-10 Female	
Connector Position	Bottom	
Lightning Protection	DC Ground	
Radome Material	Fiberglass	
Radome Color	Light Grey	
Antenna Net Weight	24 kg	52.9 lb
Shipping Weight	31.94 kg	70.4 lb
Antenna Dimensions (H x W x D)	1499 x 448 x 188 mm	59.0 x 17.6 x 7.4 in
Packing Size (H x W x D)	1649 x 551 x 361 mm	64.9 x 21.7 x 14.2 in
Survival Wind Speed	241 km/h	150 mph
Wind Load @150 km/h (Frontal / Lateral / Max)	642 / 174 / 669 N	144 / 39 / 150 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 (BASTA11.1)

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)

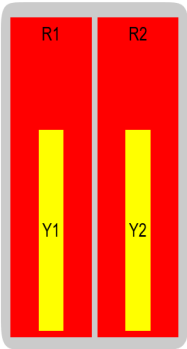
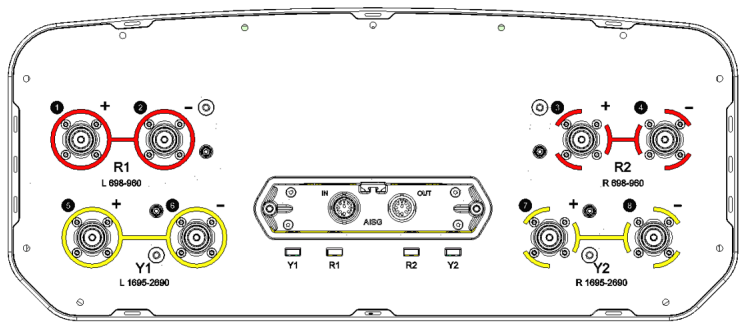


2G2WC-21

8 Port Antenna / 2L2H / 1.5m

PROSE

Layout



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

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

Accessories

Item	Model	Weight	Mechanical Tilt Range (°)
Mounting Kit	85L-1	4.1 kg / 9.0 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 OHSAS 18001
- 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.