

2G4WD-00D-V1

12 Port Antenna / 2L4H / 2.0m

PROSE

- 2×(698-960) + 4×(1695-2690) MHz
- Integrated RET (AISG 2.0 Compliant), Field Exchangeable
- 7/16 Connectors, each pair port separate scale

Electrical Data (BASTA 11.1)

Frequency(MHz)		2×(698-960)			4×(1695-2690)					
		698-806	824-894	880-960	1695-1880	1920-2200	2300-2400	2490-2690		
Gain	R1/R2	Mid Tilt	dBi	14.8	15.1	14.9				
		Over All Tilts		14.8±0.5	15.0±0.5	14.9±0.5				
	Y1/Y2/Y3	Mid Tilt					17.1	17.8	18.3	18.3
	Y4	Over All Tilts					17.1±0.7	17.7±0.7	18.3±0.5	18.3±0.5
Polarization		°	±45							

Horizontal Pattern

3dB Azimuth Beamwidth	°	64±4	63±3	61±3	69±3	66±3	61±3	59±3
Front to Back Ratio, Co-polar, 180°±30°	dB	> 23	> 25	> 25	> 27	> 28	> 28	> 28
Cross-Polar Discrimination								
At Mechanical Boresight 0°		> 18	> 18	> 18	> 19	> 21	> 22	> 20
Over Sector ±60°		> 10	> 8	> 8	> 8	> 6	> 4	> 4

Vertical Pattern

3dB Elevation Beamwidth	°	10.7±1.0	9.7±0.6	8.7±0.6	6.5±0.5	5.6±0.5	4.9±0.4	4.7±0.4
Electrical Downtilt		2-12			2-12			
1st Upper Sidelobe Suppression	dB	> 16			> 17			

RF Parameters

VSWR		< 1.5	
Intra - Cluster Isolation	dB	> 25	> 25
Inter - Cluster Isolation		> 25	> 25
3rd PIM(2 x 43 dBm)	dBc	< -150	
Impedance	Ω	50	
Maximum Effective Power per Port	W	500	300

— Maximum Effective Power Whole Antenna: 1000 W.

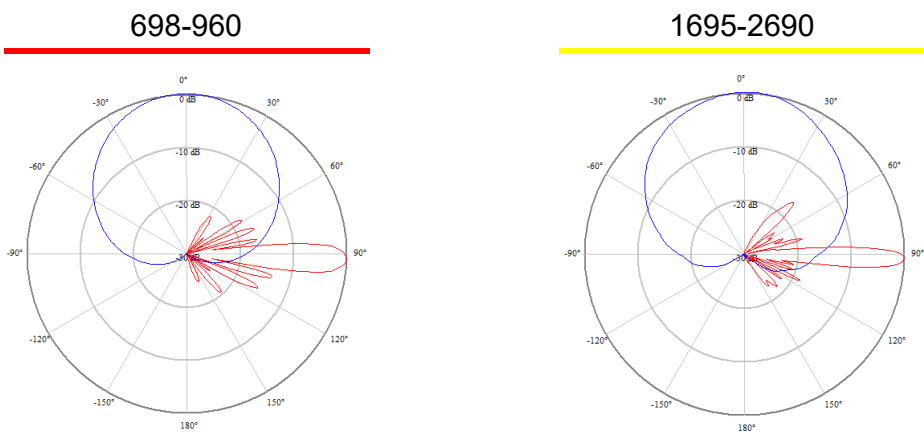
Mechanical Data (BASTA 11.1)

Connector Type	12 x 7/16DIN 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	< 30.8 kg	67.9 lb
Shipping Weight	40.3 kg	88.8 lb
Antenna Dimensions (H x W x D)	1999 x 498 x 197 mm	78.7 x 19.6 x 7.8 in
Packing Size (H x W x D)	2230 x 610 x 315 mm	87.8 x 24.0 x 12.4 in
Survival Wind Speed	241 km/h	150 mph
Wind Load @150 km/h (Frontal / Lateral / Rear)	793 / 294 / 936 N	178 / 66 / 210 lbf
Mast Diameter Supported	50 - 110 mm	2.0 - 4.3 in
Relative Humidity	5% - 95%	
Operating & Storage Temperature Range	-40 ~ +70 °C	-40 ~ +158 °F

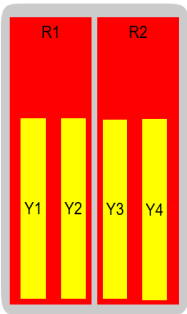
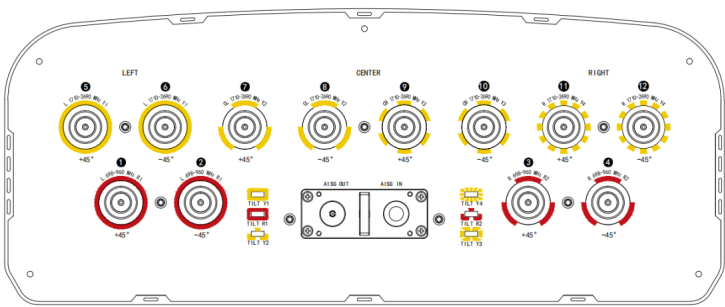
**RET Specification** (BASTA 11.1)

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)



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	6	MRET	RB.....XYYxxxxx-MM
●Y4	11 - 12	1695-2690	5	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 2 as well as to other environmentally relevant regulations (e.g. REACH)



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