

2PBG2J4WF-21SR-CL

20 Port Antenna / 4L6H / 2.6m

PROSE

- 2x(617-698) + (703-960) + (790-894) + 2x (1427-2690) + 4x (1695-2690) MHz
- Integrated RET (AISG 2.0 Compliant), Field Exchangeable
- 4.3-10 Connectors
- Internal Diplexer apply on Low Band

Electrical Data (BASTA)

Frequency(MHz)		2x617-698 / 703-960 / 790-894					
		617-698	703-790	790-894	880-960		
Gain	R1/R2/R3 /R4/Y5/Y	dBi	14.9	15.4	15.5	15.8	
	6		Over All Tilts	14.8±0.6	15.3±0.5	15.4±0.5	15.7±0.5
	Y1/Y2/Y3		Mid Tilt				
	/Y4		Over All Tilts				
Polarization		°	±45°				
Horizontal Pattern							
3dB Azimuth Beamwidth		°	67±6	64±6	65±6	62±7	
Front to Back Ratio, Total Power, 180°±30°		dB	> 21	> 23	> 22	> 24	
Cross-Polar Discrimination							
At Mechanical Boresight 0°			> 20	> 18	> 18	> 18	
Over Sector ±60°			> 10	> 10	> 9	> 8	
Vertical Pattern							
3dB Elevation Beamwidth		°	10.6±1.2	9.5±1.0	8.7±1.0	7.8±0.8	
Electrical Downtilt			2-12				
1st Upper Sidelobe Suppression		dB	> 16				
RF Parameters							
VSWR			< 1.5				
Intra - Cluster Isolation		dB	> 25				
Inter - Cluster Isolation			> 25				
3rd PIM(2 x 43 dBm)		dBc	< -153				
Impedance		Ω	50				
Maximum Effective Power Per Port		W	LB:300 / HB:250				

Electrical Data (BASTA)

2 x (1427-2690) / 4 x (1695-2690)

Frequency(MHz)

		1427-1518	1695-1880	1900-2180	2300-2400	2500-2690
R1/R2/R3	Mid Tilt	15.6	16.0	16.5	16.7	17.1
/R4/Y5/Y						
Gain	6	15.5±0.5	15.9±0.5	16.4±0.5	16.6±0.5	17.0±0.5
Y1/Y2/Y3	Mid Tilt		16.4	16.8	17.0	17.4
/Y4	Over All Tilts		16.3±0.5	16.7±0.5	16.9±0.5	17.3±0.5
Polarization	°	±45°				

Horizontal Pattern

3dB Azimuth Beamwidth	°	72±6	65±8	64±6	63±8	59±7
Front to Back Ratio, Total Power, 180°±30°		> 25				
Cross-Polar Discrimination	dB					
At Mechanical Boresight 0°		> 19	> 19	> 18	> 16	> 17
Over Sector ±60°		> 9	> 9	> 8	> 6	> 6

Vertical Pattern

3dB Elevation Beamwidth	°	7.5±0.6	7.0±0.7	6.2±0.9	5.8±0.7	5.2±0.5
Electrical Downtilt		2-12				
1st Upper Sidelobe Suppression	dB	> 16				

RF Parameters

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

— Maximum Effective Power Whole Antenna: 1500 W.

Mechanical Data (BASTA)

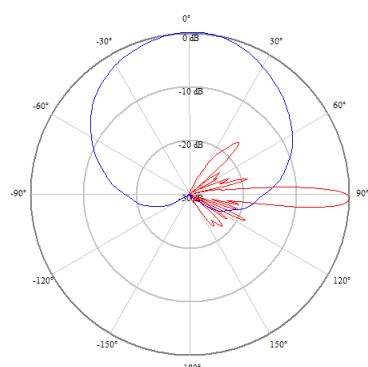
Connector Type	20 x 4.3-10 Female	
Connector Position	Bottom	
Lightning Protection	DC Ground	
Radome Material	Fiberglass	
Radome Color	Light Grey	
Antenna Net Weight	62.8 kg	138.5 lb
Shipping Weight	82.9 kg	182.8 lb
Antenna Dimensions (D x L)	Φ399 x 2690	Φ19.6 x 105.9 in
Packing Size (H x W x D)	2840 x 530 x 545 mm	111.8 x 20.9 x 21.5 in
Survival Wind Speed	241 km/h	150 mph
Wind Load @150 km/h (Frontal / Lateral / Max)	492	111 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)

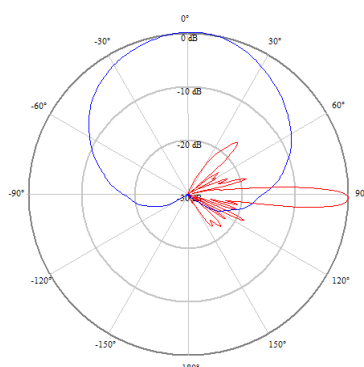
Compatible Standards	AISG2.0/ 3GPP
Power Consumption	≤2W(stand by); ≤13W(operating)
Configuration Management	Integrated RET, pre-configured
Software Upgradability	True
Replaceability in Field	True

Pattern (sample for reference)

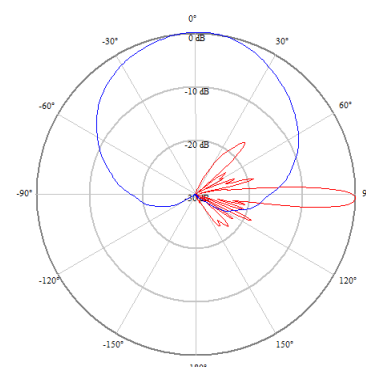
617-960



1695-2690



1427-2690

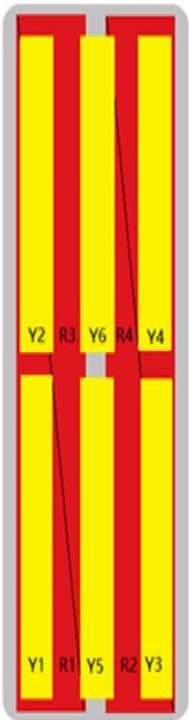
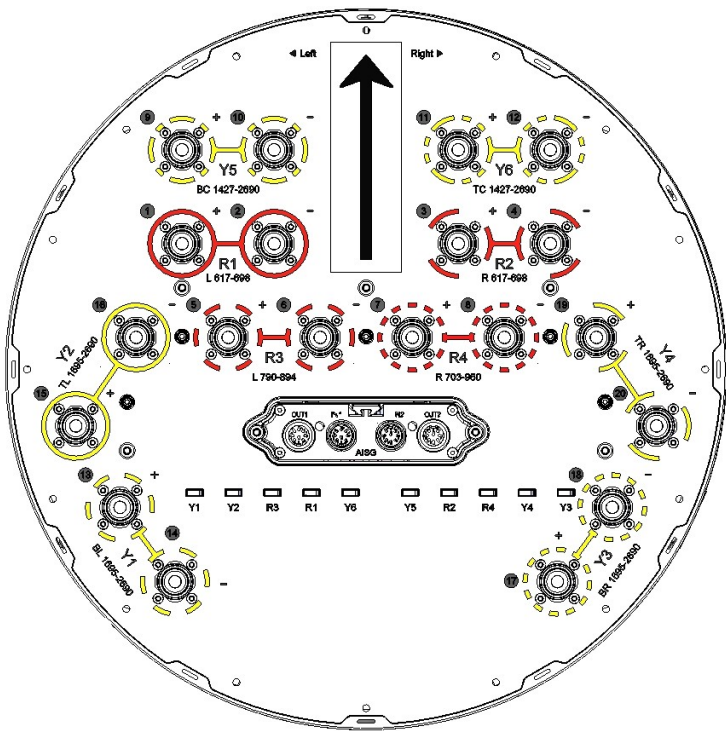


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Layout



Array	Connector	Frequency (MHz)	Sub Unit #	RET Type	RET Serial*
●R1	1 - 2	617 - 698	2-4	SRET	RB.....XYYxxxxx-R1
●R2	3 - 4	617 - 698	2-7	SRET	RB.....XYYxxxxx-R2
●R3	5 - 6	790 - 894	1-3	SRET	RB.....XYYxxxxx-R3
●R4	7 - 8	703 - 960	2-8	SRET	RB.....XYYxxxxx-R4
●Y5	9 - 10	1427 - 2690	2-6	SRET	RB.....XYYxxxxx-Y5
●Y6	11 - 12	1427 - 2690	2-5	SRET	RB.....XYYxxxxx-Y6
●Y1	13 - 14	1695 - 2690	2-1	SRET	RB.....XYYxxxxx-Y1
●Y2	15 - 16	1695 - 2690	2-2	SRET	RB.....XYYxxxxx-Y2
●Y3	17 - 18	1695 - 2690	2-10	SRET	RB.....XYYxxxxx-Y3
●Y4	19 - 20	1695 - 2690	2-9	SRET	RB.....XYYxxxxx-Y4

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

Accessories

Item	Model	Weight	Mechanical Tilt Range (°)
Mounting Kit	RAPMK-03	6.4Kg / 14.1 lb	0-12

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)



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