

DR-2A8J42-F2A Data Sheet v1.1

10X Pol, 2 × 694-960/8 × 1695-2690MHz
 10 × 65 Horizontal Beamwidth, 2 × 16.3/8 × 17.5dBi
 E-tilt: 10 × 2-12
 2.7m 20-Port 2L8M Antenna with Integrated RCU

Electrical Properties(BASTA 11.1)

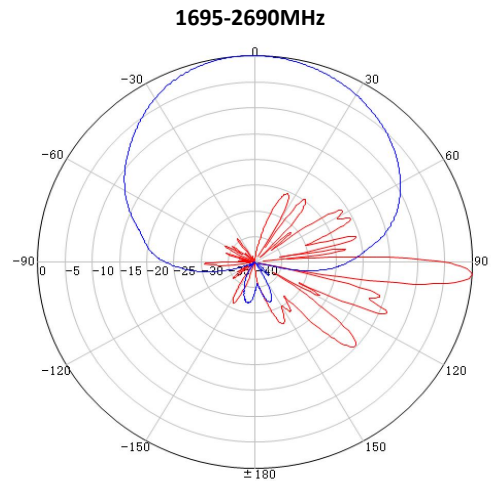
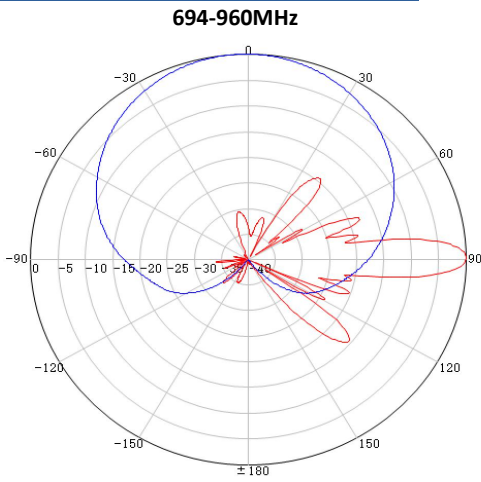
Frequency Band(MHz)	694-960(R1,R2)			1695-2690(Y1-Y8)			
	694-803	790-894	880-960	1695-1990	1920-2200	2300-2400	2500-2690
Polarization	±45°			±45°			
Gain(dBi)	15.7±0.5	15.9±0.5	16.3±0.5	16.1±0.5	17.0±0.5	17.3±0.5	17.5±0.5
Horizontal 3dB Beam Width(°)	70±4	65±5	63±6	67±7	65±7	63±5	60±5
Vertical 3dB Beam Width(°)	8.1±0.8	7.5±0.5	7±0.5	7.5±0.6	6.9±0.6	6.0±0.6	5.5±0.6
Front to Back Ratio at 180±30°(dB)	25		25	25	25	25	25
Cross Polar Ratio at 0°(dB)	15	17	17	17	17	17	17
Cross Polar Ratio Sector ±60°(dB)	8	10	10	6	6	6	6
1st Upper Sidelobe Suppression(dB)	17	17	17	17	17	17	17
Electrical Downtilt(°)	2-12			2-12			
VSWR	< 1.5			< 1.5			
Cross-polar Isolation(dB)	>27			>28			
Interband Isolation(dB)	R1//R2>25;R1,R2//Y1-Y8>26						
3rd Order PIM(dBc) @2 x 43dBm	< -153			< -153			
Impedance(Ω)	50			50			
Power Handling(W)	300			250			

Mechanical Specifications

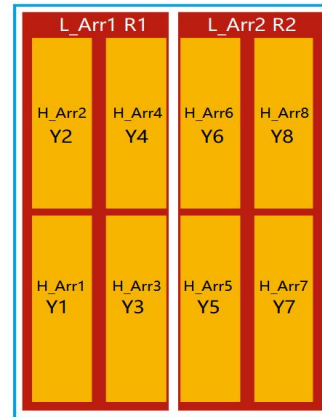
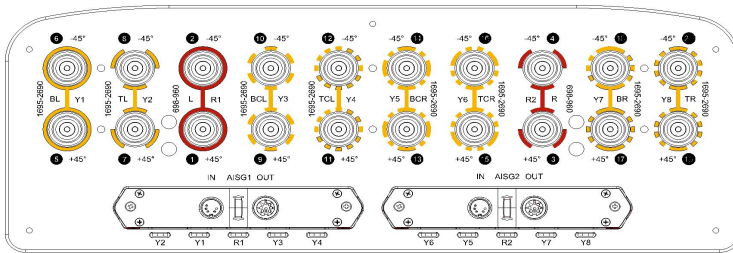
Antenna Dimensions (HxWxD) (mm)	2685 x 480 x 175
Packing Dimensions (HxWxD) (mm)	2970 x 550 x 255
Lightning Protection	DC Ground
Antenna Weight (kg)	50
Packed Weight (kg)	63.5kg
Connector	20 x 4.3-10 Female
Radome Material	Fiberglass
Wind Load at 150 km/h(N) (Front /Rear/Side)	1710/1825/400
Maximum Wind Speed(km/h)	200
Diameter of Installation Pole(mm)	Φ50-Φ114
Operating Temperature Range(°C)	-40+65
RET Type	Integrated RCU
RET Protocols	AISG 2.0/3GPP



Pattern sample for reference



Layout of interface



Array ID	RF Connector	RET(S RET)	Frequency(MHz)	AISG RET UID
R1	1-2	3	694-960	MKxxxxxxxxxxxxxxxxR1
R2	3-4	8	694-960	MKxxxxxxxxxxxxxxxxR2
Y1	5-6	1	1695-2690	MKxxxxxxxxxxxxxxxxY1
Y2	7-8	2	1695-2690	MKxxxxxxxxxxxxxxxxY2
Y3	9-10	4	1695-2690	MKxxxxxxxxxxxxxxxxY3
Y4	11-12	5	1695-2690	MKxxxxxxxxxxxxxxxxY4
Y5	13-14	6	1695-2690	MKxxxxxxxxxxxxxxxxY5
Y6	15-16	7	1695-2690	MKxxxxxxxxxxxxxxxxY6
Y7	17-18	9	1695-2690	MKxxxxxxxxxxxxxxxxY7
Y8	19-20	10	1695-2690	MKxxxxxxxxxxxxxxxxY8

* For more information, please refer to the specification of RET.

Accessories

Item	Model	Weight	Mechanical Tilt	Quantity
Mounting Kit	MJM-020-1101A2	8.0kg	0-8°	1