

## DS-Z1-F2B Data Sheet v0.1

XXXX Pol,3300-4200MHz

65° Horizontal Beamwidth,17dBi

E-Tilt,TDD:2-12

1.0m 9-Port TDD Antenna with Integrated RCU

## Electrical Properties(BASTA 11.1)

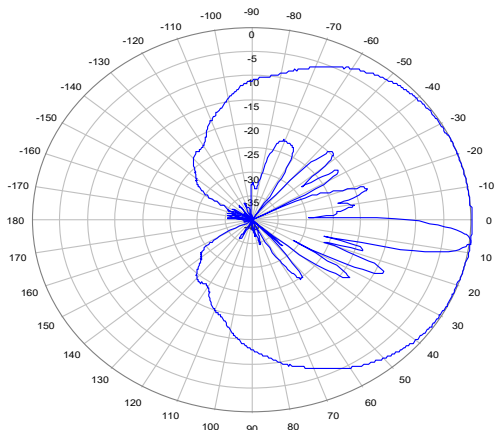
		Frequency Band(MHz)	3300-3600	3600-3800	3800-4200
General Parameter		Frequency Band(MHz)	3300-3600	3600-3800	3800-4200
		Polarization(°)	±45		
		Electrical Downtilt (°)	2~12		
		Impedance (Ω)	50		
Calibration and Electrical Parameters		Amplitude Coupling (dB)	-26±2		
		Coupled Amplitude Variation (dB)	1		
		Coupled Phase Variation (°)	9		
		VSWR	< 1.5		
		Intraband Isolation (dB)	≥20(2-6°);≥25(7-12°)		
		Cross polar Isolation (dB)	≥20(2-6°);≥25(7-12°)		
		Input Power, Average (W)	80		
Radiation parameters	Single column Beam	Gain (dBi)	16.5±0.5	16.8±0.5	17.2±0.4
		Horizontal 3dB Beamwidth (°)	76±13	72±13	70±10
		Vertical 3dB Beam Width(°)	6.2±0.4	5.8±0.4	5.5±0.4
		Cross Polar Ratio at 0° (dB)	18		
		Cross Polar Ratio Sector ±60° (dB)	8		
		Front to Back Ratio at 180±30° (dB)	23		
	Broadcast Beam	±32.5°Sector Power Ratio(%)	72±7		
		±60°Sector Power Ratio(%)	> 90		
		Gain Over All Tilts (dBi)	18±0.5	18.3±0.5	18.7±0.5
		Vertical 3dB Beamwidth (°)	6.2±0.4	5.8±0.4	5.5±0.4
		Front to Back Ratio at 180±30°(dB)	23		
		Upper Sidelobe Suppression (dB)	15		
	Service Beam	0° Service Beam Gain Over All Tilts(dBi)	21.7±0.5	22±0.5	22.4±0.5
		0° Service Beam Horizontal 3dB Beamwidth(°)	25±3	23±3	21±3
		0° Service Beam Sidelobe Suppression(dB)	10		
		0° Service Beam Cross Polar Ratio at 0°(dB)	20		
		0° Service Beam Front to Back Ratio at 180±30°(dB)	28		
		±60° Service Beam Gain(dBi)	19.5±0.5	19.5±0.5	19.5±0.5
		±60° Service Beam Horizontal 3dB Beamwidth(°)	34±3	32±3	30±3
		±60° Service Beam Sidelobe Suppression(dB)	3		

Mechanical Specifications	
Antenna Dimensions (HxWxD) (mm)	998 x 270 x 140
Packing Dimensions (HxWxD) (mm)	1213 x 340 x 220
Antenna Weight (kg)	11.5
Packed Weight (kg)	20
Connector	9 x4.3-10
Radome Material	Fiberglass
Wind Load at 150 km/h(N) (Front /Rear/Side)	238/342/98
Maximum Wind Speed(km/h)	241
Diameter of Installation Pole(mm)	Φ50-Φ114
Operating Temperature Range(°C)	-40-+65
Lightning Protection	DC Ground
RET Type	Integrated RCU
RET Protocols	AISG 2.0/3GPP

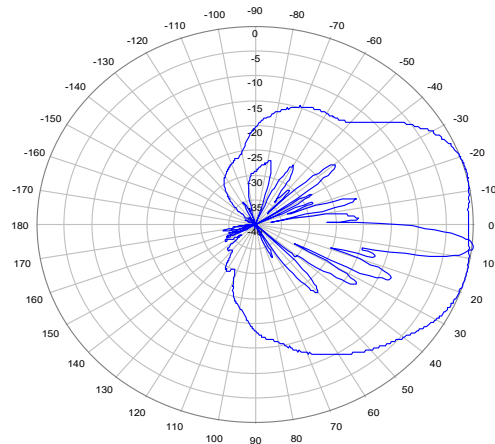


Pattern sample for reference

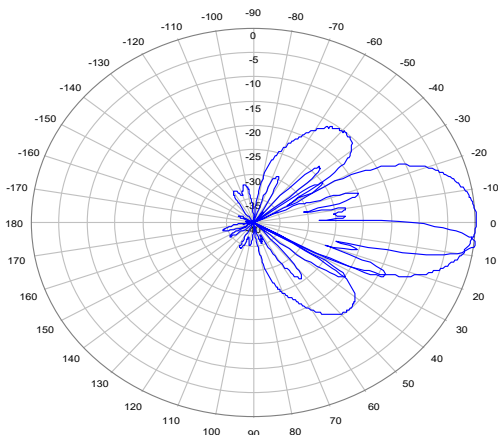
3300-4200Mhz Single Column Beam



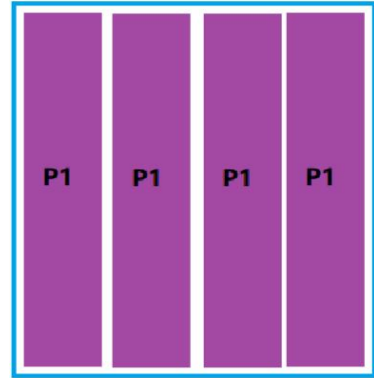
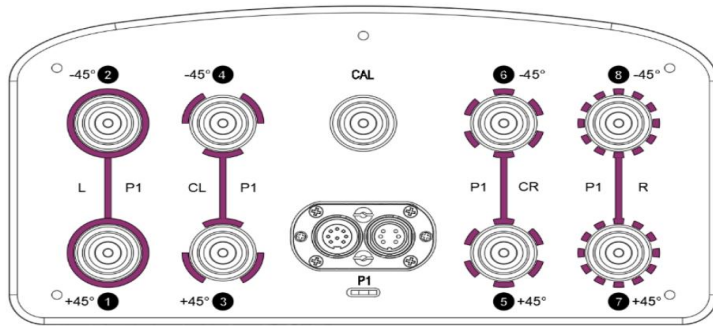
3300-4200Mhz BroadCast Beam



3300-4200Mhz 0° Sercice Beam



Layout of interface



Array ID	RF Connector	RET (S RET)	Frequency (MHz)	AISG RET UID
P1	1-8	1	3300-4200	MKxxxxxxxxxxxxxxxxP1

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

Accessories

Item	Item	Weight	Mechanical Tilt Range
Mounting Kit	MJM-022-1101A	5.5kg	0-10°