

## DS-J2-F2B Data Sheet v0.1

XXXX Pol,1710-2690MHz

65° Horizontal Beamwidth,17.0dBi

E-tilt:2-12

1.5m 9-Port TDD Antenna with Integrated RCU

## Electrical Properties(BASTA 11.1)

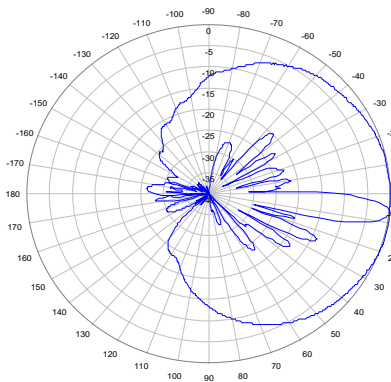
Frequency Band(MHz)		4 x (1710-2690)			
		1710-1990	1920-2200	2300-2400	2490-2690
Polarization		±45°			
Electrical Downtilt(°)		2-12			
Calibration and electrical parameters	Coupling factor between calibration port and each antenna port(dB)	-26±2			
	Max.amplitude tolerance from calibration port to input ports(dB)	<0.9			
	Max.phase tolerance from calibration port to input ports(°)	<7			
	Ports VSWR	<1.5			
	Co-polarization isolation between ports(dB)	2°~6°<-20;7°~12°<-28			
	Cross-polarization isolation between ports(dB)	2°~6°<-24;7°~12°<-28			
Element Beam	Horizontal 3dB Beamwidth (°)	105±15	97±15	90±15	65±15
	Gain Over All Tilts (dBi)	14.3±0.5	15±0.5	15.7±0.5	16.3±0.5
	Cross Polar Ratio (0°) (dB)	18			
	Cross Polar Ratio (±60°) (dB)	10			
	1st Upper Sidelobe Suppression (dB)	16			
	F/B Ratio, (180°±30°) (dB)	25			
Broadcast Beam	±32.5°Sector Power Ratio(%)	72±7			
	±60°Sector Power Ratio(%)	> 90			
	Gain Over All Tilts (dBi)	16.0±0.5	16.6±0.5	17.4±0.5	17.9±0.5
	Vertical 3dB Beamwidth (°)	7.5±0.5	6.9±0.3	6.0±0.3	5.5±0.3
	1st Upper Sidelobe Suppression (dB)	16			
	F/B Ratio, (180°±30°) (dB)	25			
0°Service Beam	Gain Over All Tilts (dBi)	19.8±1	21±1	21.4±1	21.7±1
	Horizontal 3dB Beamwidth (°)	28±2	25±2	22±2	20±2
	Horizontal Sidelobe Level (dB)	≤-12			
	Cross Polar Ratio (dB) @0°	20			
	F/B Ratio,(180°±30°) (dB)	30			

Mechanical Specifications	
Antenna Dimensions (HxWxD) (mm)	1460 x 320 x 140
Packing Dimensions(HxWxD)(mm)	1675 x 390 x 220
Lighting Protection	DC Ground
Antenna Weight(kg)	17
Packed Weight(Kg)	24.9
Connector	9 x 4.3-10 Female
Radome Material	Fiberglass
Wind Load at 150 km/h(N)	598/718/236
(Front /Rear/Side)	
Maximum Wind Speed(km/h)	241
Diameter of Installation Pole(mm)	50-110
Operating Temperature Range(°C)	-40~+65
RET Type	Internal motor
RET Protocols	AISG 2.0 remotely upgradeable

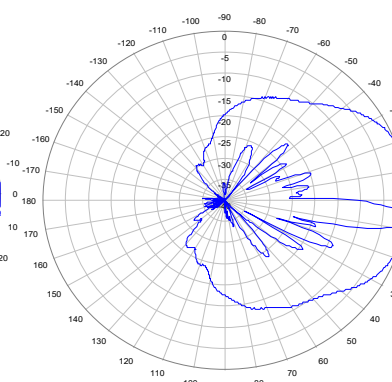


Pattern sample for reference

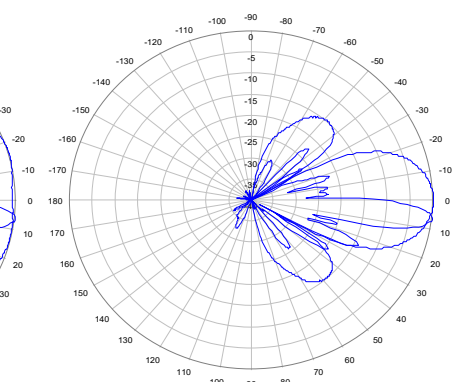
1710~1990MHz



Element Beam

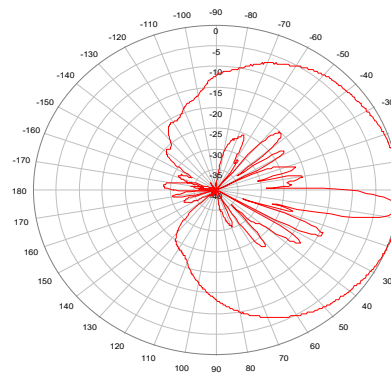


Broadcast Beam

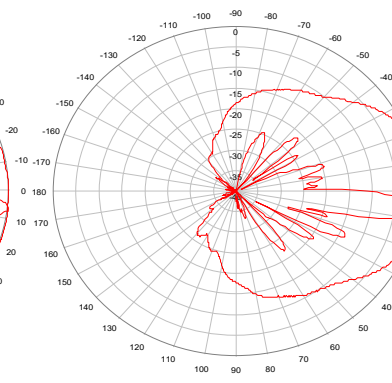


0° Service beam

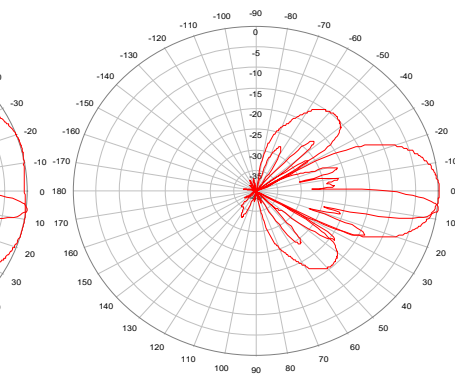
1920~2200MHz



Element Beam

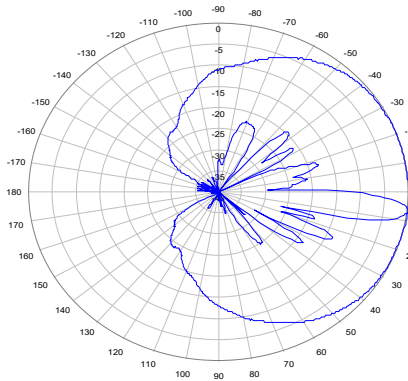


Broadcast Beam

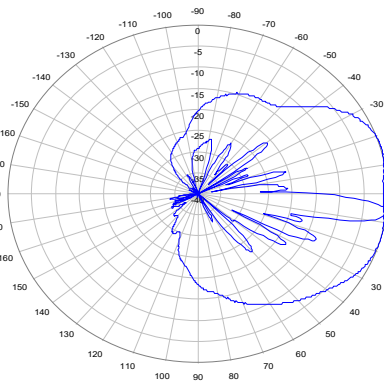


0° Service beam

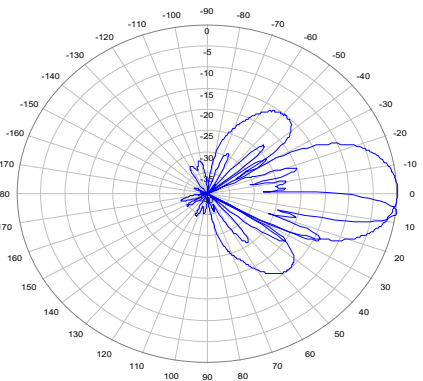
2300~2500MHz



Element Beam

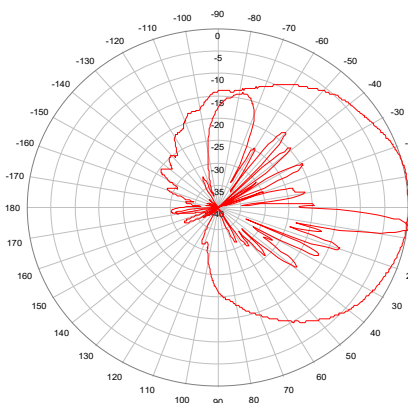


Broadcast Beam

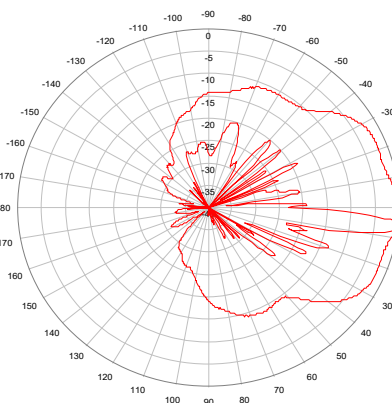


0° Service beam

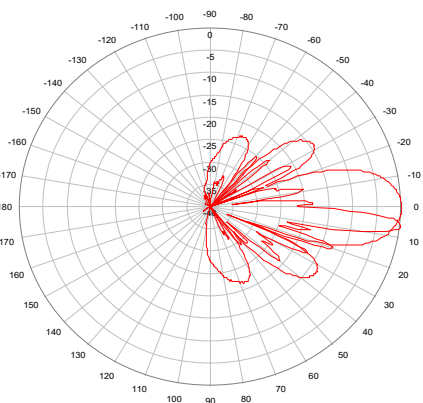
2490~2690MHz



Element Beam

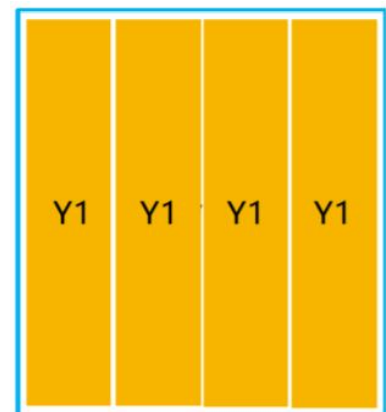
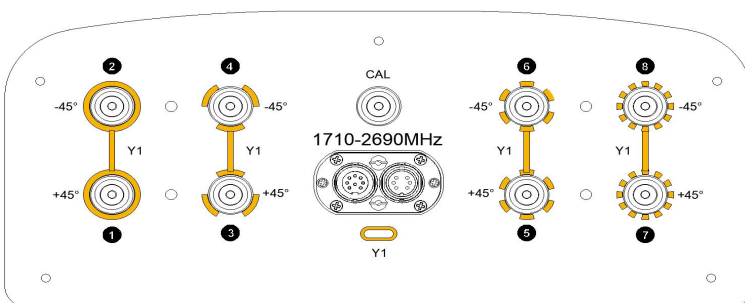


Broadcast Beam



0° Service beam

Layout of interface



Array ID	RF Connector	RET (S RET)	Frequency (MHz)	AISG RET UID
Y1	1-8	1	1710-2690	MKXXXXXXXXXXXXXXXXY1

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

### Accessories

Item	Item	Weight	Mechanical Tilt	Quantity
Mounting Kit	MJM-022-1101A	5.5kg	0-10°	1