

XXXXPol 3300~4200MHz BCH 90° 16dBi 2° ~10° Beamforming Antenna,RET Integrated.

Electrical specifications					
General parameters	Frequency range(MHz)		3300~3600	3600~3800	3800~4200
	Polarization		±45°		
	Electrical downtilt(°)		2~10		
	Electrical downtilt tolerance(°)		±1		
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(°)		≤8		
	Ports VSWR		≤1.5		
	Co-polarization isolation between ports(dB)		≥20		
	Cross-polarization isolation between ports(dB)		≥25		
	RET Protocol		AISG 2.0		
Radiation parameters	Single column beam	Horizontal 3dB beam width(°)	78±10	70±10	65±10
		Gain(dBi)	15.5±0.4	15.7±0.4	15.9±0.4
		Vertical 3dB beam width(°)	6.3±0.4	5.9±0.5	5.3±0.5
		Cross polar ratio(0°)(dB)	≥15	≥15	≥14
		Front to back ratio(dB)	≥24	≥24	≥24
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	≥15	≥15	≥15
	65° Broadcast beam	Gain(dBi)	15.4±0.4	15.7±0.4	15.9±0.5
		SPR(±32.5°)(%)	72±10	72±10	72±10
		SPR(±60°)(%)	≥90	≥90	≥90
		Vertical 3dB beam width(°)	5.9±0.5	5.2±0.4	4.9±0.4
		Front to back ratio(dB)	≥25	≥25	≥25
	Service beam	Vertical sidelobe suppression for first sidelobe above main beam(dB)	≥15	≥15	≥15
		0° direct beam gain(dBi)	20±1	20.5±1	21±1
		0° direct beam horizontal 3dB beam width(°)	20±0.9	19±0.8	18±0.7
		0° direct beam sidelobe suppression(dB)	≥12	≥12	≥12
		0° direct beam cross polar ratio(axial)(dB)	≥15	≥15	≥15
		0° direct beam front to back ratio(dB)	≥30	≥30	≥30

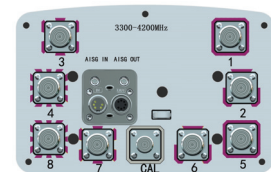
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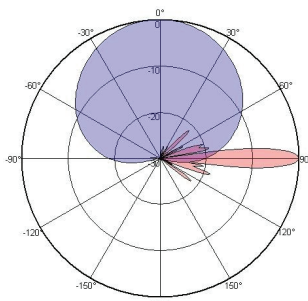
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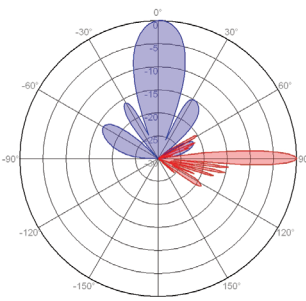
Mechanical specifications	
Distance between columns(mm)	51 (0.65λ@3800MHz)
Antenna dimensions(H×W×D)(mm)	1000×230×150
Packing size(mm)	1250×315×220
Antenna net weight(kg)	11.7
Installation kit weight(kg)	4.1
Packing weight(kg)	17.3
Mechanical downtilt(°)	0~10
Mast diameter(mm)	φ50~ φ115
Radome material	Fiberglass
Radome colour	Gray
Operating temperature(°C)	-40~60
Wind load(N,at 150km/h) Frontal/Lateral/Rearside	263/111/294
Max. operational wind speed(km/h)	216
Connector type	9×4.3-10 Female
Connector position	Bottom
Max. power per input (W) @50°C	80



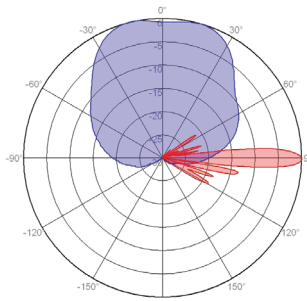
3600MHz



Single Column Beam

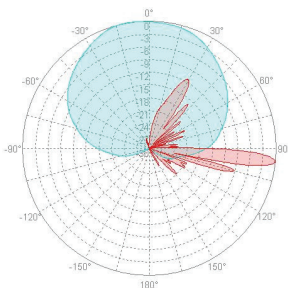


0° Service Beam

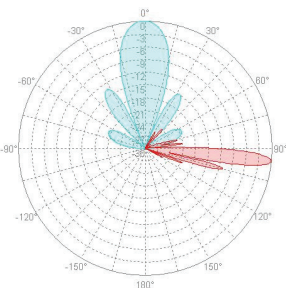


BCH Beam

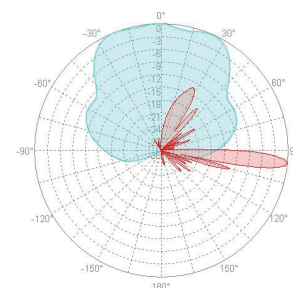
4200MHz



Single Column Beam



0° Service Beam



BCH Beam