

XXXXPol 2496~2690/3400~3600MHz 70°/60°±15° 17/18dBi Smart Antenna

Electrical specifications					
General parameters	Frequency range(MHz)		2496-2690	3400-3600	
	Polarization		±45°		
	Electrical downtilt(°)		6		
	Electrical downtilt tolerance(°)		±1.5		
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)		<0.8		
	Max.phase tolerance from calibration port to input ports(°)		≤8		
	Ports VSWR		≤1.5		
	Co-polarization isolation between ports(dB)		≥27		
	Cross-polarization isolation between ports(dB)		≥28		
Radiation parameters	Single column beam	Horizontal 3dB beam width(°)		70±15	60±15
		Gain(dBi)		≥17	≥18
		Vertical 3dB beam width(°)		≥5	≥4
		Cross polar ratio(0°)(dB)		≥18	≥18
		Cross polar ratio(±60°)(dB)		≥10	≥10
		Front to back ratio(dB)		≥23	≥25
		Vertical sidelobe suppression for first sidelobe above main beam(dB)		≤-16	≤-14
	65° Broadcast beam	Horizontal 3dB beam width(°)		65±5	65±5
		Gain(dBi)		≥17	≥17.5
		±60°Gain roll-off at sector edge(dB)		-12±3	-12±3
		Vertical 3dB beam width(°)		≥5	≥4
		Cross polar ratio(0°)(dB)		≥22	/
		Cross polar ratio(±60°)(dB)		≥10	/
		Front to back ratio(dB)		≥28	≥28
	Vertical sidelobe suppression for first sidelobe above main beam(dB)		≤-15	≤-15	
	Service beam	0° direct beam gain(dBi)		≥21	≥21.5
		0° direct beam horizontal 3dB beam width(°)		≤32	≤29
		0° direct beam sidelobe suppression(dB)		≤-12	≤-12
		0° direct beam cross polar ratio(axial)(dB)		≥22	≥22
		0° direct beam front to back ratio(dB)		≥28	≥28
		±30° direct beam gain(dBi)		≥16.5	≥17.5
±30° direct beam horizontal 3dB beam width(°)		≤35	≤32		
±30° direct beam horizontal sidelobe suppression(dB)		≤-5	≤-5		

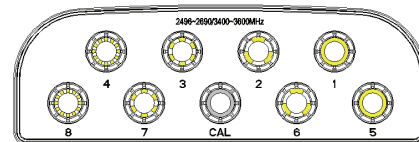
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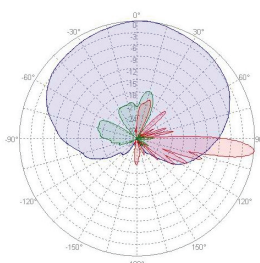
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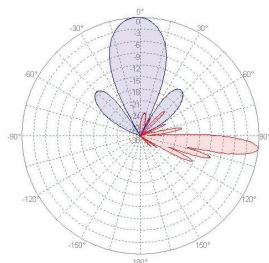
Mechanical specifications	
Antenna dimensions(H×W×D)(mm)	1365×320×105
Packing size(mm)	1475×410×220
Antenna net weight(kg)	13.9
Installation kit weight(kg)	4.8
Packing weight(kg)	21.6
Mechanical downtilt(°)	0~10
Mast diameter(mm)	φ50~ φ115
Radome material	PVC
Radome colour	Gray
Operating temperature(°C)	-40~60
Connector type	9×N-female
Connector position	Bottom
Max. power per input (W) @50°C	100



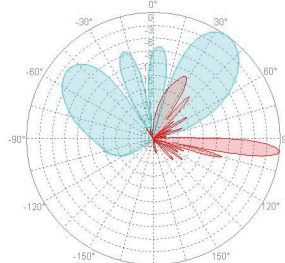
2600MHz



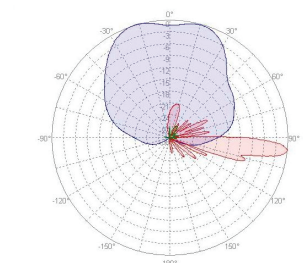
Single Column Beam



0 ° Service Beam

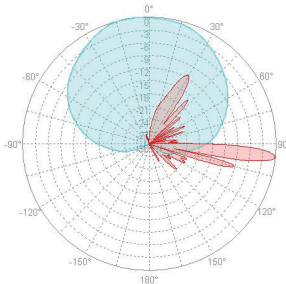


30 ° Service Beam

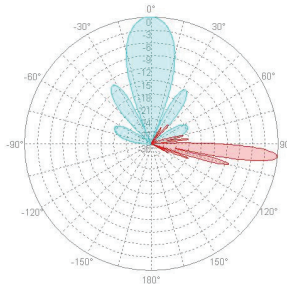


BCH Beam

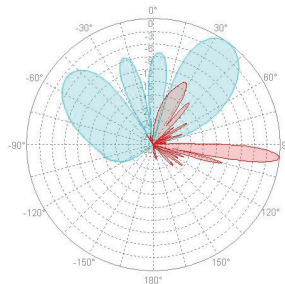
3500MHz



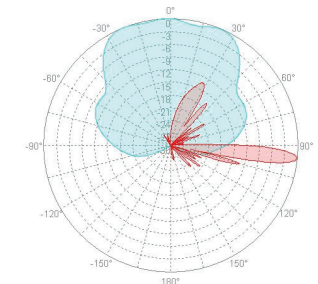
Single Column Beam



0 ° Service Beam



30 ° Service Beam



BCH Beam