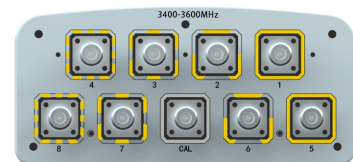


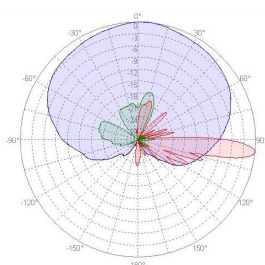
XXXXPol 3400~3600MHz 100°/90°±15° 14/15dBi Smart Antenna

Electrical specifications				
General parameters	Frequency range(MHz)		3400-3500	3500~3600
	Polarization		±45°	
	Electrical downtilt(°)		6	
	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)		<0.7	
	Max.phase tolerance from calibration port to input ports(°)		≤8	
	Ports VSWR		≤1.5	
	Co-polarization isolation between ports(dB)		≥28	
	Cross-polarization isolation between ports(dB)		≥30	
	1830~1880MHz Out of band attenuation(dB)		95±15	85±15
	Isolation between FA/D (dB)		>14	>15
Radiation parameters	Single column beam	Horizontal 3dB beam width(°)	≥6.5	≥6
		Gain(dBi)	≥18	
		±60°Gain roll-off at sector edge(dB)	≥10	
		Vertical 3dB beam width(°)	≥23	
		Cross polar ratio(0°)(dB)	≥15	
		Cross polar ratio(±60°)(dB)	65±5	
		Front to back ratio(dB)	>14.5	>15.5
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	-12±3	
	65° Broadcast beam	Horizontal 3dB beam width(°)	≥6.5	≥6
		Gain(dBi)	≥22	
		SPR(±32.5°)(%)	≥10	
		SPR(±60°)(%)	≥28	
		±60°Gain roll-off at sector edge(dB)	≥16	
		Cross polar ratio(0°)(dB)	≥20	≥21
		Cross polar ratio(±60°)(dB)	≤34	≤32
		Front to back ratio(dB)	≥12	
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	≥16.5	≥17.5
		Null fill at first null point below main beam(dB)	≤35	≤32
	Service beam	0° direct beam gain(dBi)	≤-5	
		0° direct beam horizontal 3dB beam width(°)	≥22	
		0° direct beam sidelobe suppression(dB)	≥28	

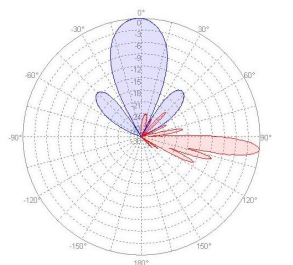
Mechanical specifications	
Antenna dimensions(H×W×D)(mm)	1000×220×100
Packing size(mm)	1290×315×185
Antenna net weight(kg)	Approx 6.5
Installation kit weight(kg)	4
Packing weight(kg)	12.6
Mechanical downtilt(°)	0~10
Mast diameter(mm)	φ50~ φ115
Radome material	ASA
Radome colour	Gray
Operating temperature(°C)	-55~65
Connector type	9×N-female
Connector position	Bottom
Connector distance(mm)	≥38



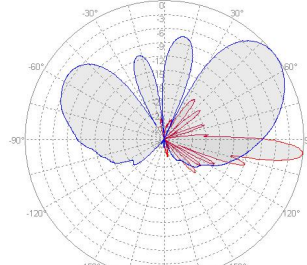
3400MHz



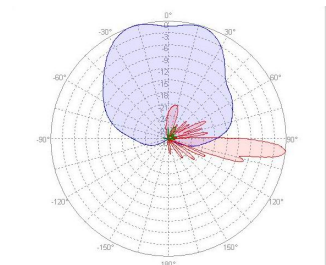
Single Column Beam



0 ° Service Beam

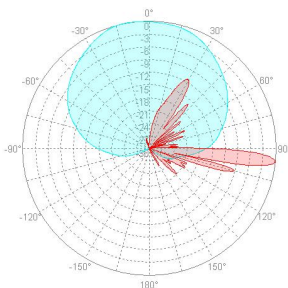


60 ° Service Beam

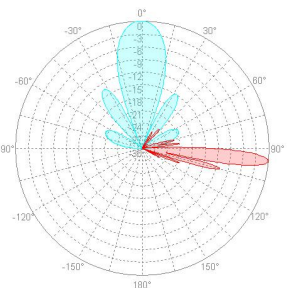


BCH Beam

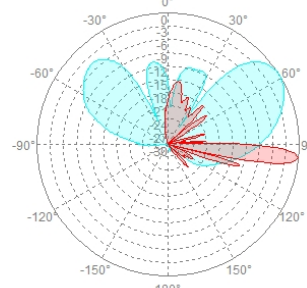
3500MHz



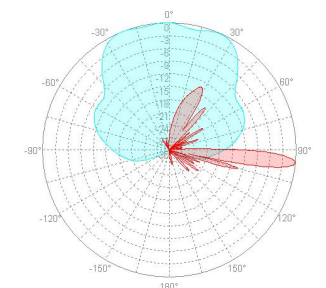
Single Column Beam



0 ° Service Beam



60 ° Service Beam



BCH Beam