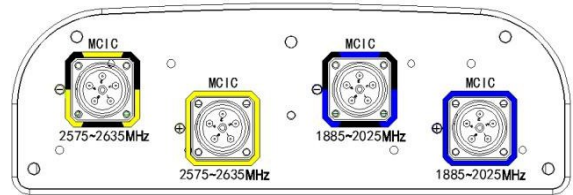


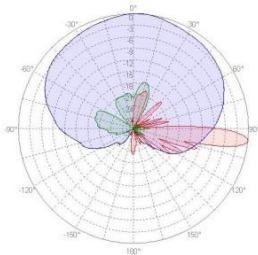
XPol 1885-1920/2010-2025/2575-2635MHz 100°/90°/65°±15° 13.5/14.5/16dBi TD-SCDMA/LTE Smart Antenna

Electrical specifications					
General parameters	Frequency range(MHz)		1885-1920(F)	2010-2025(A)	2575-2635(D)
	Polarization		±45°		
	Electrical downtilt(°)		6	6	6
	Electrical downtilt tolerance(°)		±1	±1	±1
Calibration and electrical parameters	Coupling factor between calibration port and each antenna port(dB)		-26±2	-26±2	-26±2
	Max.amplitude tolerance from calibration port to input ports(dB)		<0.7	<0.7	<0.7
	Max.phase tolerance from calibration port to input ports(°)		≤5	≤5	≤5
	Ports VSWR		≤1.5	≤1.5	≤1.5
	Co-polarization isolation between ports(dB)		≥28	≥28	≥28
	Cross-polarization isolation between ports(dB)		≥30	≥30	≥30
Radiation parameters	Single column beam	Horizontal 3dB beam width(°)	100±15	90±15	65±15
		Gain(dBi)	≥13.5	≥14.5	≥16
		±60°Gain roll-off at sector edge(dB)	/	/	-12±2
		Vertical 3dB beam width(°)	/	/	≥5
		Cross polar ratio(0°)(dB)	≥18	≥18	≥18
		Cross polar ratio(±60°)(dB)	≥10	≥10	≥10
		Front to back ratio(dB)	≥23	≥23	≥25
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	/	/	≤-16
	65° Broadcast beam	Horizontal 3dB beam width(°)	65±5	65±5	65±5
		Gain(dBi)	≥13.5	≥14.5	≥15.5
		±60°Gain roll-off at sector edge(dB)	-12±2	-12±2	-12±2
		Vertical 3dB beam width(°)	≥7	≥6.5	≥5
		Cross polar ratio(0°)(dB)	≥22	≥22	≥22
		Cross polar ratio(±60°)(dB)	≥10	≥10	≥10
		Front to back ratio(dB)	≥28	≥28	≥28
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	≤-16	≤-16	≤-16
	Service beam	Null fill at first null point below main beam(dB)	typ.18	typ.18	typ.18
		0° direct beam gain(dBi)	≥19.5	≥20.5	≥21.5
		0° direct beam horizontal 3dB beam width(°)	≤29	≤26	≤25
		0° direct beam sidelobe suppression(dB)	≤-12	≤-12	≤-12
		±60° direct beam gain(dBi)	≥17.5	≥17.5	≥17.5
		±60° direct beam horizontal 3dB beam width(°)	≤32	≤32	≤23
		±60° direct beam horizontal sidelobe suppression(dB)	≤-5	≤-5	≤0
		0° direct beam cross polar ratio(axial)(dB)	≥22	≥22	≥22
0° direct beam front to back ratio(dB)	≥28	≥28	≥28		

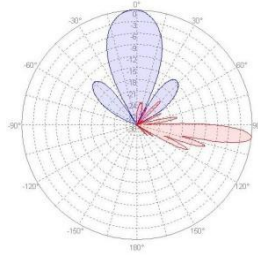
Mechanical specifications	
Antenna dimensions(HxWxD)(mm)	1365x320x105
Packing size(mm)	1475x410x220
Antenna net weight(kg)	Approx 13.5
Installation kit weight(kg)	4.8
Packing weight(kg)	21.8
Mechanical downtilt(°)	-5~10
Mast diameter(mm)	φ50~ φ115
Radome material	UPVC
Radome colour	Gray
Operating temperature(°C)	-55~65
Wind load(N,at 150km/h) Frontal/Lateral/Rearside	533/109/566
Connector type	4x(Assemble Connector-Male)
Connector position	Bottom
Connector distance(mm)	≥50



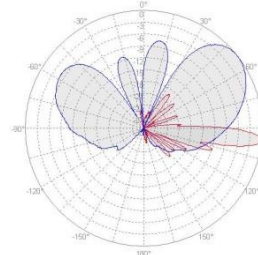
2018MHz



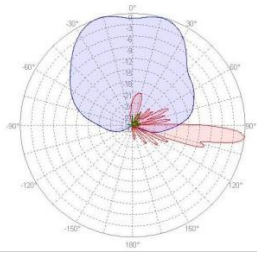
Single Column Beam



0 ° Service Beam

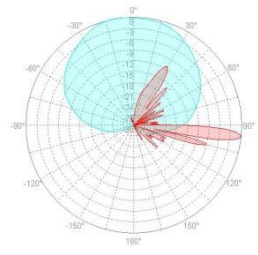


60 ° Service Beam

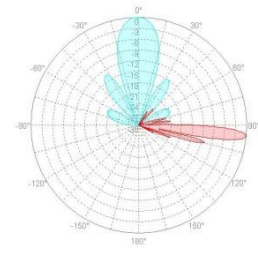


BCH Beam

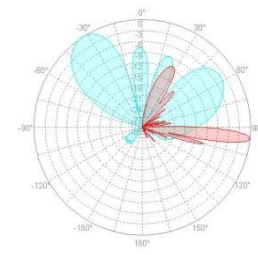
2600MHz



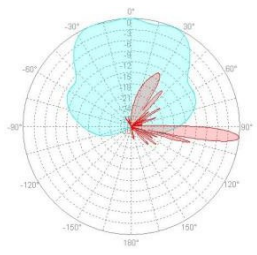
Single Column Beam



0 ° Service Beam



60 ° Service Beam



BCH Beam