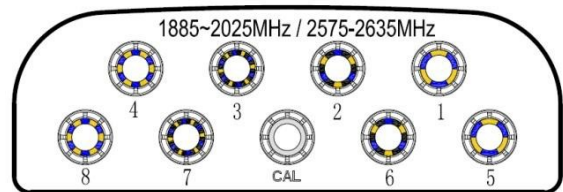


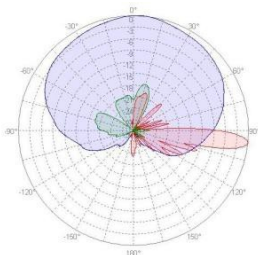
**XPoI 1885-1920/2010-2025/2575-2635MHz 100°/90°/65°±15° 14/15/16.5dBi TD-SCDMA/LTE Smart Antenna**

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)		≥14	≥15	≥16.5
		±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)		≥14	≥15	≥16
		±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
		Null fill at first null point below main beam(dB)		typ.18	typ.18	typ.18
	Service beam	0° direct beam gain(dBi)		≥20	≥21	≥22
		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

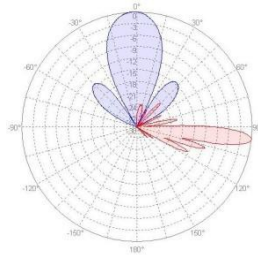
Mechanical specifications	
Antenna dimensions(H×W×D)(mm)	1365×320×105
Packing size(mm)	1475×410×220
Antenna net weight(kg)	Approx 12.6
Installation kit weight(kg)	4.8
Packing weight(kg)	19.6
Mechanical downtilt(°)	-5~10
Mast diameter(mm)	φ50~ φ115
Radome material	UPVC
Radome colour	Gray
Operating temperature(°C)	-55~65
Wind load(N,at 150km/h)	533/109/566
Frontal/Lateral/Rearside	
Connector type	9×N-Female
Connector position	Bottom
Connector distance(mm)	≥50



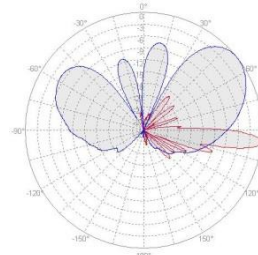
**2018MHz**



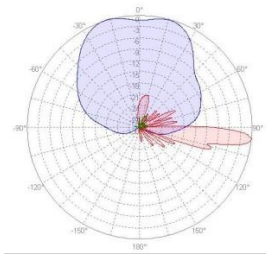
Single Column Beam



0 ° Service Beam

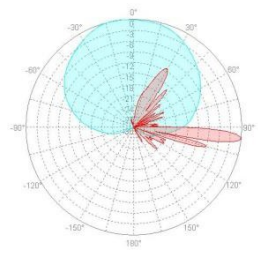


60 ° Service Beam

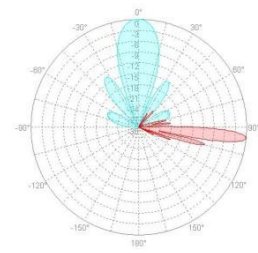


BCH Beam

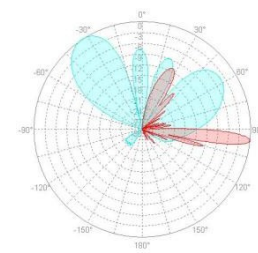
**2600MHz**



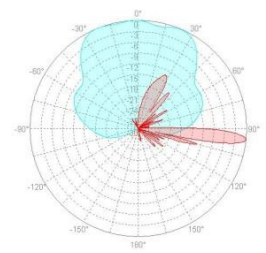
Single Column Beam



0 ° Service Beam



60 ° Service Beam



BCH Beam