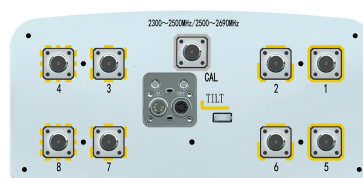


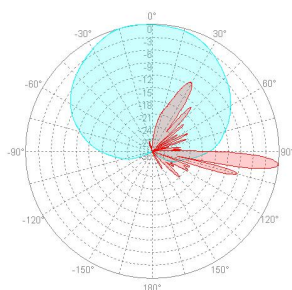
XXXXPol 2300~2690MHz 90° 17dBi 2°~12° Integrated and replaceable RCU (Remote Control Unit) Beamforming Antenna.

Electrical specifications				
General parameters	Frequency range(MHz)		2300-2490	2490-2690
	Polarization		$\pm 45^\circ$	
	Electrical downtilt($^\circ$)		2~12,continuously adjustable	
	Electrical downtilt tolerance($^\circ$)		± 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($^\circ$)		≤ 7	
	Ports VSWR		≤ 1.5	
	Co-polarization isolation between ports(dB)		≥ 23	
	Cross-polarization isolation between ports(dB)		≥ 25	
Radiation parameters	Single column beam	Horizontal 3dB beam width($^\circ$)	90	75
		Gain(dBi)	16	17
		Vertical 3dB beam width($^\circ$)	6.0	5.5
		Cross polar ratio(0°)(dB)	≥ 18	≥ 18
		Front to back ratio(dB)	≥ 25	≥ 25
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	≥ 15	≥ 15
	65° Broadcast beam	Horizontal 3dB beam width($^\circ$)	65	65
		Gain(dBi)	17.5	18.0
		Vertical 3dB beam width($^\circ$)	6.0	5.5
		Cross polar ratio(0°)(dB)	≥ 22	≥ 22
		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)	21.0	22.0
		0° direct beam horizontal 3dB beam width($^\circ$)	25.5	23
		0° direct beam cross polar ratio(axial)(dB)	≥ 22	≥ 22
		0° direct beam front to back ratio(dB)	≥ 28	≥ 28
	Soft split multi-beam	Gain (dBi)	20.5	21.5
		Horizontal 3dB beam width($^\circ$)	30	27
		Front to back ratio(dB)	≥ 28	≥ 28
		Cross polar ratio at boresight(dB)	≥ 18	≥ 18

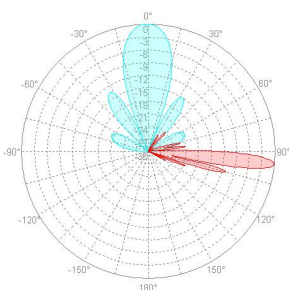
Mechanical specifications	
Antenna dimensions(H×W×D)(mm)	1450×270×140
Packing size(mm)	1735×365×220
Antenna net weight(kg)	17.3
Installation kit weight(kg)	5.4
Packing weight(kg)	26.8
Mechanical downtilt(°)	0~15
Mast diameter(mm)	Φ50~Φ115
Radome material	Fiberglass
Radome colour	Gray
Operating temperature(°C)	-40~65
Wind load(N,at 150km/h) Frontal/Lateral/Rearside	330/112/453
Max. operational wind speed(km/h)	250
Connector type	9×4.3-10 Female
Connector position	Bottom
Max. power per input (W) @50°C	100



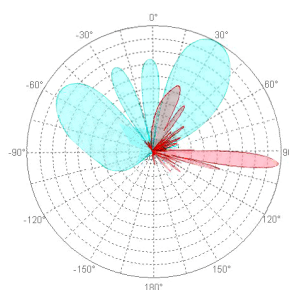
Antenna pattern sample for reference



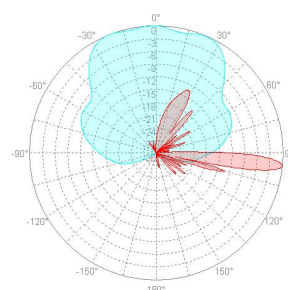
Single Column Beam



0 ° Service Beam



30 ° Service Beam



BCH Beam