

XXXXP01 2300~2690MHz 90° 17dBi 2°~12° Integrated and replaceable RCU (Remote Control Unit) Beamforming Antenna.

Electrical specifications					
General parameters	Frequency range(MHz)		2300-2400	2496-2690	
	Polarization		±45°		
	Electrical downtilt(°)		2~12,continuously adjustable		
	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(°)		5		
	Ports VSWR		1.5		
	Co-polarization isolation between ports(dB)		≥25@3°-6°; ≥28@7°-12°		
	Cross-polarization isolation between ports(dB)		≥25@2°; ≥28@3°-6°; ≥30@7°-12°		
Radiation parameters	Single column beam	Horizontal 3dB beam width(°)		90	75
		Gain(dBi)		16	17
		Vertical 3dB beam width(°)		6.5	5.7
		Cross polar ratio(0°)(dB)		≥20	≥20
		Front to back ratio(dB)		≥28	≥27
		Vertical sidelobe suppression for first sidelobe above main beam(dB)		≥18	≥18
	65° Broadcast beam	Horizontal 3dB beam width(°)		65	65
		Gain(dBi)		17.5	18
		Vertical 3dB beam width(°)		6.5	5.7
		Cross polar ratio(0°)(dB)		≥22	≥22
		Front to back ratio(dB)		≥30	≥30
		Vertical sidelobe suppression for first sidelobe above main beam(dB)		≥18	≥18
	Service beam	0° direct beam gain(dBi)		21	22
		0° direct beam horizontal 3dB beam width(°)		25.5	23
		0° direct beam cross polar ratio(axial)(dB)		≥22	≥22
		0° direct beam front to back ratio(dB)		≥30	≥30
	Soft split multi-beam	Gain (dBi)		20.5	21.5
		Horizontal 3dB beam width(°)		30	27
		Front to back ratio(dB)		≥30	≥30
		Cross polar ratio at boresight(dB)		≥18	≥18

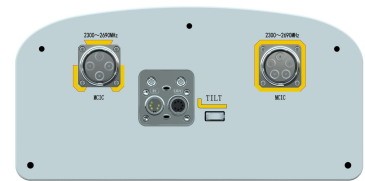
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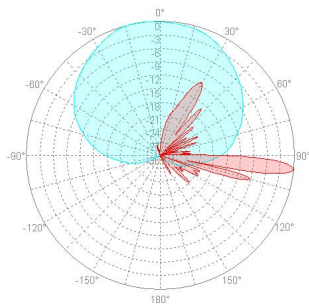
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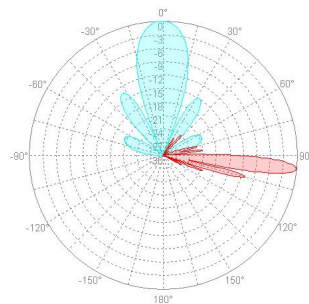
Mechanical specifications	
Antenna dimensions(H×W×D)(mm)	1450×300×146
Packing size(mm)	1740×365×200
Antenna net weight(kg)	17.3
Installation kit weight(kg)	5.5
Packing weight(kg)	26.8
Mechanical downtilt(°)	0~15
Mast diameter(mm)	Φ50~Φ115
Radome material	Fiberglass
Radome colour	Gray
Operating temperature(°C)	-40~60
Wind load(N,at 150km/h) Frontal/Lateral/Rearside	446/136/494
Max. operational wind speed(km/h)	216
Connector type	1×(MQ4+MQ5) Connector-Male
Connector position	Bottom



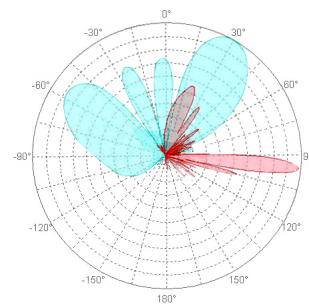
Antenna pattern sample for reference



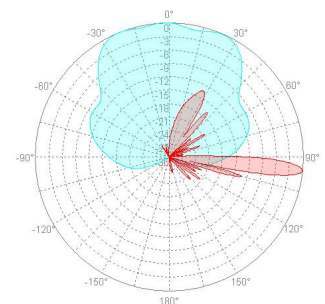
Single Column Beam



0 ° Service Beam



30 ° Service Beam



BCH Beam