

TDD : X Pol 1885~1920/2010~2025/2575~2635MHz 100/90/65°±15° 14/15/16dBi with Integrated RCU

FDD : XX Pol 885~960/1710~1830MHz 65°14/17dBi with Integrated RCU

Electrical specifications					
General parameters	Frequency range(MHz)		1885-1920(F)	2010-2025(A)	2575-2635(D)
	Polarization		±45°		
	Electrical downtilt(°)		2~12		
	Electrical downtilt tolerance(°)		±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)		2°: ≥20 ;3°~ 6°: ≥25 ;7°~ 12°: ≥30		
	Cross-polarization isolation between ports(dB)		2°: ≥25 ;3°~ 6°: ≥28 ;7°~ 12°: ≥30		
	RET type		Internal motor		
	RET Protocol		AISG 2.0 remotely upgradeable		
Radiation parameters	Single column beam	Horizontal 3dB beam width(°)	100±15	90±15	65±15
		Gain(dBi)	≥13.5	≥14.5	≥15.5
		±60°Gain roll-off at sector edge(dB)	/	/	-12±2
		Vertical 3dB beam width(°)	≥7	≥6.5	≥5
		Cross polar ratio(0°)(dB)	≥18	≥18	≥18
		Cross polar ratio(±60°)(dB)	≥10	≥10	≥10
		Front to back ratio(dB)	≥23	≥23	≥23
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	/	/	≥15
	65° Broadcast beam	Horizontal 3dB beam width(°)	65±5	65±5	65±5
		Gain(dBi)	≥13.5	≥14.5	≥15
		±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	≤-15
	Service beam	0° direct beam gain(dBi)	≥19.5	≥20.5	≥21
		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	≥17	≥17
		±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

Electrical specifications - FDD		
Frequency Range(MHz)	885~960	1710~1830
Polarization	±45°	±45°
Gain (dBi)	14	16.5
Electrical downtilt (°)	0~14	2~12
Horizontal-3dB beamwidth (°)	65	65
Vertical-3dB beamwidth (°)	14	6.5
Sidelobe suppression (dB) (First sidelobe above main beam)	0°...7°...14° 15...16...15	2°...7°...12° 15...16..15
Front-to-back ratio (dB)	≥25	
Isolation: intra-system (dB)	≥30	
Cross-polar ratio (dB)	≥15 (±60°≥8)	
Impedance (Ω)	50	
VSWR	≤1.5	
Intermodulation IM3 (2×43dBm carrier)	≤-143dBc	
Max. power per input (W)	250	200
Lightning protection	DC Ground	

Electrical specifications - Combined	
1 TDD and FDD Same polarization isolation between different antennas (SA1/SB5)	≥35
2 TDD and FDD Different polarization isolation between different antennas(SA5/SB1)	≥35

Mechanical specifications	
Connector position	Bottom
Connector type	TDD:4x Assemble Connector-Male FDD:4x7/16 DIN-Female
Antenna dimensions HxWxD(mm)	1500x450x200
Packing size HxWxD (mm)	1750x650x400
Antenna weight (kg)	40
Installation kit weight (kg)	8
Packing weight (kg)	52
Radome material	Fiberglass
Radome color	Gray
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	720/240/765
Max. wind velocity(km/h)	216
Humidity	≤ 100%
Operating temperature (°C)	-40~60
Mechanical adjustment tilt range (°)	0~10
Mounting hardware (mm)	Φ50~Φ115

