


3400-3600 MHz TDD Antenna

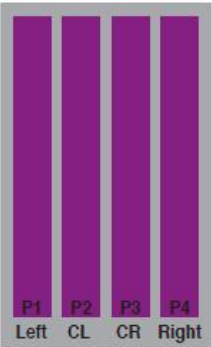
65°/HBW / 2°-12°T/1*MQ4+1*MQ5 Connectors /0.96m

Electrical Specifications(BASTA)			
General Parameters	Frequency Range(MHz)		3400-3600
	Polarization (°)		±45
	Electrical downtilt(°)		2-12
RF 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 between calibration port and each antenna port(°)		≤9
	Ports VSWR		< 1.5
	Co-polarization Isolation between ports (dB)		>26
	Cross-polarization Isolation between ports(dB)		> 25
	Impedance (Ω)		50
	Max. power per port(W)		250
Lightning Protection		DC Ground	
Radiation parameters	Single column beam	Horizontal 3dB beam width(°)	65±8
		Gain (dBi)	16±0.5
		Vertical 3dB beam width(°)	5.7±0.5
		Beam ±60° edge power drop (dB)	12±3
		Cross polar ratio(0°)(dB)	>18
		Cross polar ratio(±60°)(dB)	>10
		Front to back ratio(dB)	>26
		1st Upper Sidelobe Suppression (dB)	>15
	Broadcast beam	Gain (dBi)	16±0.5
		±32.5°sector power ratio (%)	>72
		±60°sector power ratio (%)	>90
		Beam ±60° edge power drop (dB)	12±4
		Vertical 3dB beam width(°)	5.7±0.5
		Front to back ratio(dB)	>25
		1st Upper Sidelobe Suppression (dB)	>15
	Service 0°beam	Lower first zero fill (dB)	<20
		0°direct beam gain(dBi)	21.3±0.4
		0°direct beam horizontal 3dB beam width (°)	28±2
		0°direct beam sidelobe sidelobe leve(dB)	>15
		0°direct beam cross polar ratio(axial)(dB)	>20
	Service 60°beam	0°direct beam front to back ratio(dB)	>26
±60° direct beam horizontal 3dB beam width (°)		27±3	
±60° direct beam gain(dBi)		16.5±0.4	

	±60° direct beam sidelobe level(dB)	>4	>4
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Mechanical Specifications(BASTA)	
RET type	Integrated RET (AISG2.0/3GPP)
AISG Connectors (1 input and 1 output)	2x8 pin (in: Male; out: Female)
Connector	1*MQ4+1*MQ5 (Bottom)
Antenna dimensions (H x W x D) (mm)	960×300×146
Packing dimensions (H x W x D) (mm)	1135×380×250
Antenna weight (kg)	13
Clamps weight (kg)	5.5
Packing weight(kg)	18
Diameter of installation pole	φ50 ~φ110mm
Radome material	Fiberglass
Mechanical Tilt Range (°)	0~10
Radome colour	Light Grey
Operational temperature (°C)	-40 to +60
Wind load @150km/h (N)	251/298/105(Frontal/Lateral/Rear side)
Max. operational wind speed (km/h)	241



Layout		
		
1Frequency Range	Array	Connector
3400-3600MHz	MQ4/MQ5	-45° /+45°

Pattern				
3400-3600MHz				
Column beam	Broadcast beam	0°service beam	-60°service beam	+60°service beam
