TDD : XXXXPol 3300~3800MHz BCH 65° 17 dBi 2~12° Beamforming
FDD :XXXXXXPol 698~960MHz×2/1710~2690MHz×2/1427~2690MHz×2 65°/65°/65° 16/16/16dBi 2°~12°/2°~12°/2° ~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications-TDD				
General Parameters	Frequency range(MHz)		P1-3300~3800	
			3300~3600	3600~3800
	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	
	Max.amplitude tolerance from calibration port to input ports(dB)		＜0.9	
	Max.phase tolerance from calibration port to input ports(°)		≤8	
	Ports VSWR		≤1.5	
	Co-polarization isolation between ports(dB)		≥20@2~4°;≥25@5~12°	
	Cross-polarization isolation between ports(dB)		≥ 22	
	Inter array spacing(mm)		43(0.51λ@3550MHz)	
Radiation Parameters	Single Column Beam	Horizontal 3dB beam width(°)	85±15	80±15
		Gain(dBi)	14.3±0.5	15±0.6
		Vertical 3dB beam width(°)	≥6.3	≥5.8
		Cross polar ratio(0°)(dB)	≥15	
		Cross polar ratio(±60°)(dB)	≥8	
		Front to back ratio(dB)	≥23	
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	≥16	≥15
	Broadcast Beam	Gain(dBi)	16.5±0.5	16.5±0.6
		SPR(±60°)(%)	≥90	
		Vertical 3dB beam width(°)	≥6	≥5.5
		Front to back ratio(dB)	≥25	
	Service Beam	0° direct beam gain(dBi)	20±0.5	20±0.6
		0° direct beam horizontal 3dB beam width(°)	24±1.8	23±0.9
		0° direct beam sidelobe suppression(dB)	≥10	
		0° direct beam cross polar ratio(axial)(dB)	≥18	
		0° direct beam front to back ratio(dB)	≥25	
		±30° direct beam gain(dBi)	18.3±0.5	19±0.6

Electrical Specifications								
Frequency range (MHz)	R1/R2 -698~960				Y2/Y4 -1710~2690			
	698~803	790~862	824~894	880~960	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°				±45°			
Gain at mid tilt (dBi)	14.3	14.8	15.2	15.5	15.0	15.4	16.0	15.7
Gain over all tilts (dBi)	14.2±0.5	14.7±0.5	15±0.5	15.3±0.5	14.9±0.5	15.2±0.5	15.7±0.5	15.4±0.5
Horizontal 3dB beamwidth (°)	67±5	67±5	68±5	69±5	68±6	60±6	58±5	63±6
Vertical 3dB beamwidth (°)	11±0.9	9.9±0.6	9.6±0.5	9.1±0.5	9.3±0.6	8.3±0.5	7.6±0.5	6.9±0.5
Front to back ratio (dB) Total power, ±30°	＞22	＞24	＞25	＞24	＞25	＞25	＞25	＞24
Cross polar ratio (dB) (at Boresight)	＞17	＞17	＞17	＞18	＞17	＞18	＞17	＞16
Electrical downtilt (°)	2~12				2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	＞15	＞16	＞16	＞16	＞16	＞16	＞15	＞15
VSWR	<1.5				<1.5			
Isolation: intra-system (dB)	≥25				≥25			
Isolation: inter-system (dB)	R1//R2≥25 R1,R2//other≥28				＞28			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc				≤-153 dBc			
Impedance (Ω)	50				50			
Max. power per input (W) @50°C	400				200			
Lightning protection	Dc Ground				Dc Ground			

Electrical Specifications					
Frequency Range (MHz)	Y1/Y3 -1427~2690				
	1427~1518	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°				
Gain at mid tilt (dBi)	14.2	14.9	15.3	15.8	15.6
Gain over all tilts (dBi)	14.0±0.5	14.7±0.5	15.1±0.6	15.5±0.8	15.3±0.5
Horizontal 3dB beamwidth (°)	68±5	63±5	65±5	66±4	63±5
Vertical 3dB beamwidth (°)	12.8±1.0	11.2±1.0	10.2±0.8	9.2±0.7	8.0±0.6
Front to back ratio (dB) Total power, ±30°	＞25	＞26	＞25	＞25	＞25
Cross polar ratio (dB) (at Boresight)	＞17	＞22	＞20	＞21	＞19
Electrical downtilt (°)	2~12				
Sidelobe suppression (dB) (First sidelobe above main beam)	＞16	＞16	＞15	＞15	＞15
VSWR	<1.5				
Isolation: intra-system (dB)	＞25				
Isolation: inter-system (dB)	＞28				
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc				
Impedance (Ω)	50				
Max. power per input (W) @50°C	200				
Lightning protection	Dc Ground				

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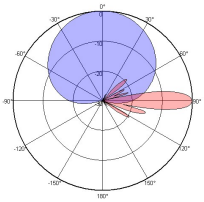
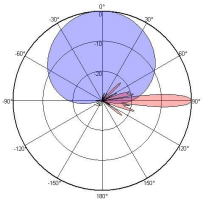
Mechanical Specifications	
Connector	TDD:1×(MQ4+MQ5)Connector-Male FDD:12×4.3-10-Female
Connector position	Bottom
Height × width × depth (mm)	2080×499×198
Packing size (mm)	2465×620×350
Antenna weight (kg)	45.3
Installation kit weight (kg)	5.4
Packing weight (kg)	56.5
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	1100/325/1240
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0~10
Operating temperature (℃)	-50~65
Mounting hardware (mm)	Φ50~Φ115

Integrated RET Properties	
RET model	TRCU-TQ20P3V01
RET type	Integrated (Replaceable)
RET protocol	AISG 2.0/3GPP
Power supply(V)	10-30 DC
Power consumption(W)	≤0.6 (Idle,12V),≤6 (In motion,12V)
Adjustment time (Full Range)	＜4Mins
Adjustment cycles	＞50,000
Temperature range (℃)	-40~65
Lightning protection	3KA(8/20μs) @ Pin5 & Pin3; 5KA(8/20μs) @ Pin1 / Pin6 & Pin7
Connectors	2×8 Pin circle connector according to IEC 60130-9 and AISG. Daisy chain in:Male,Daisy chain out:Female Pin1:12V;Pin3:RS485B;Pin5:RS485A;Pin6:10-30V; Pin7:GND;Pin2&Pin4&Pin8:N/C

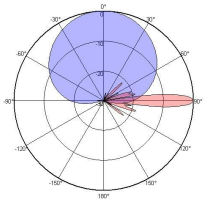
Antenna Pattern Sample For Reference



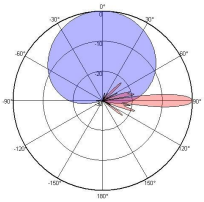
698~960MHz



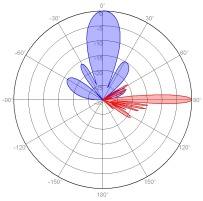
1710~2690MHz



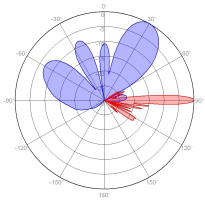
1427~2690MHz



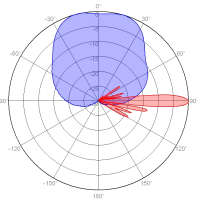
Single column beam



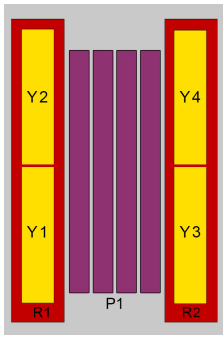
0° Service beam



30° Service beam



BCH beam



Ant Array	RET Unique ID
R1	TY00000……R1
R2	TY00000……R2
Y1	TY00000……Y1
Y2	TY00000……Y2
Y3	TY00000……Y3
Y4	TY00000……Y4
P1	TY00000……P1