XXXXXXXPol 698~960MHz×2/1710~2690MHz×5 65°/65° 16.9/17.8dBi 2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications							
Frequency range (MHz)	R1/ R2:698~960×2			Y3: 1710~2690			
	698~806	790~862	880~960	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°						
Gain at mid tilt (dBi)	16.2	16.5	16.9	17.1	17.3	17.8	17.6
Gain over all tilts (dBi)	16.0±0.5	16.3±0.5	16.7±0.5	17.0±0.5	17.2±0.5	17.6±0.5	17.4±0.6
Horizontal 3dB beamwidth (°)	68±3.5	67±3.1	66±4.7	62±4.5	61±5.5	65±5.5	60±3.5
Vertical 3dB beamwidth (°)	9.0±0.8	8.2±0.6	7.5±0.5	7.4±0.7	6.5±0.6	6.0±0.4	5.3±0.6
Front to back ratio (dB) Total power, ±30°	＞23	＞25	＞25	＞27	＞28	＞28	＞27
Cross polar ratio (dB) (at Boresight)	＞18	＞20	＞20	＞18	＞18	＞18	＞18
Electrical downtilt (°)	2~12			2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	＞17	＞17	＞17	＞18	＞18	＞18	＞18
VSWR	<1.5			<1.5			
Isolation: intra-system (dB)	＞25			＞25			
Isolation: inter-system (dB)	＞25(R1//R2) ＞28(R1,R2//Y1,Y2,Y3,Y4,Y5)			＞30			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc						
Impedance (Ω)	50						
Max. power per input (W) @50°C	400			200			
Lightning protection	DC Ground						

Electrical Specifications				
Frequency Range (MHz)	Y1/Y2/Y4/Y5: 1710~2690×4			
	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi) (Bottom)	16.8	17.2	17.8	17.1
Gain over all tilts (dBi) (Bottom)	16.6±0.5	17.1±0.5	17.5±0.5	16.9±0.5
Gain at mid tilt (dBi) (Top)	16.7	17.1	17.6	17.1
Gain over all tilts (dBi) (Top)	16.5±0.5	17.0±0.5	17.4±0.5	16.9±0.5
Horizontal 3dB beamwidth (°)	67±5.1	62±4.7	59±4.5	61±5.0
Vertical 3dB beamwidth (°)	7.8±0.6	6.9±0.6	6.1±0.5	5.6±0.5
Front to back ratio (dB) Total power, ±30°	＞26	＞26	＞25	＞25
Cross polar ratio (dB) (at Boresight)	＞18	＞18	＞18	＞18
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	＞18	＞18	＞17	＞17
VSWR	<1.5			
Isolation: intra-system (dB)	＞25			
Isolation: inter-system (dB)	＞28			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	200			
Lightning protection	DC Ground			

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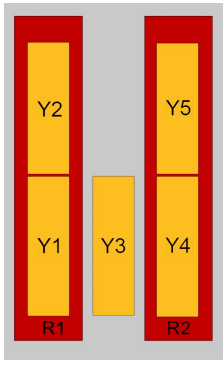
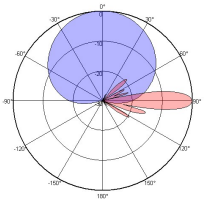
Mechanical Specifications	
Connector	14×4.3-10-Female
Connector position	Bottom
Height × width × depth (mm)	2680×469×198
Packing size (mm)	3120×585×350
Antenna weight (kg)	48.3
Installation kit weight (kg)	8.6
Packing weight (kg)	65.9
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	1163/352/1207
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0-8
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

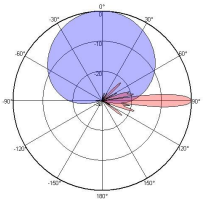


Ant Array	RET Unique ID
R1	TY00000……R1
R2	TY00000……R2
Y1	TY00000……Y1
Y2	TY00000……Y2
Y3	TY00000……Y3
Y4	TY00000……Y4
Y5	TY00000……Y5

Antenna Pattern Sample For Reference



698~960 MHz



1710~2690 MHz