

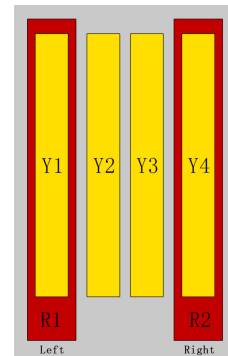
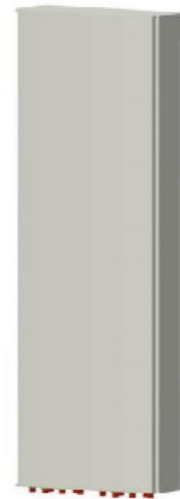
XXXXXXPol 617~894MHz×2/1695~2690MHz×4 65°/65° 15.5/18dBi 2°~14°/2°~12° Integrated RCU (Remote Control Unit) Antenna

Electrical Specifications			
Frequency range (MHz)	617~894×2		
	617-698	698-806	806-894
Polarization	±45°		
Gain over all tilts (dBi)	14.5±0.5	14.9±0.5	15.2±0.5
Horizontal 3dB beamwidth (°)	68±4	66±4	64±4
Vertical 3dB beamwidth (°)	12.0±0.8	10.6±0.7	9.1±0.6
Front to back ratio (dB) Total power, ±30°	≥23	≥24	≥25
Cross polar ratio (dB) (at Boresight)	≥18	≥18	≥18
Electrical downtilt (°)	2~14		
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>16
VSWR	<1.5		
Isolation: intra-system (dB)	≥25		
Isolation: inter-system (dB)	R1//R2≥25 (R1,R2)/(Y1,Y2,Y3,Y4) ≥28		
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc		
Impedance (Ω)	50		
Max. power per input (W) @50°C	400		
Lightning protection	Dc Ground		

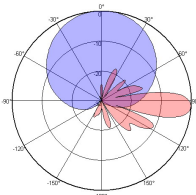
Electrical Specifications				
Frequency Range (MHz)	1695~2690×4			
	1695-1920	1920-2200	2200-2490	2490-2690
Polarization	±45°			
Gain over all tilts (dBi)	16.5±0.6	17.4±0.6	17.6±0.6	18.0±0.6
Horizontal 3dB beamwidth (°)	67±7	66±6	63±6	60±6
Vertical 3dB beamwidth (°)	6.8±0.6	6.3±0.5	6.0±0.5	5.7±0.4
Front to back ratio (dB) Total power, ±30°	≥25	≥25	≥25	≥25
Cross polar ratio (dB) (at Boresight)	≥17	≥16	≥16	≥16
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>16	>16	>16
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	(Y1,Y2,Y3,Y4)//Other>25			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	200			
Lightning protection	Dc Ground			

Mechanical Specifications	
Connector	12×4.3-10Female
Connector position	Bottom
Height × width × depth (mm)	2080×499×178
Packing size (mm)	2465×620×330
Antenna weight (kg)	41
Installation kit weight (kg)	5.5
Packing weight (kg)	52.8
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	1162/225/1177
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0~10
Operating temperature (°C)	-50~65
Mounting hardware (mm)	Φ50~Φ115

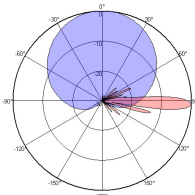
Integrated RET Properties	
RET model	TRCU-TQ20P3V01
RET type	Integrated (Replaceable)
RET protocol	AISG 2.0 SRET
Power supply(V)	10-30 DC
Power consumption(W)	≤0.6 (Idle, 12V), ≤6 (In motion, 12V)
Adjustment time (Full Range)	<4Mins
Adjustment cycles	> 50,000
Temperature range (°C)	-40~65
Lightning protection	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



617~894MHz



1695~2690MHz

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