

**XXXXXXPol 698~960MHz×2/1710~2170MHz×4 65°/Dual-beam 33° 16.2/18.3dBi 2°~10°/2°~10° Integrated RCU (Remote Control Unit) Antenna**

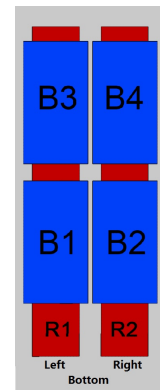
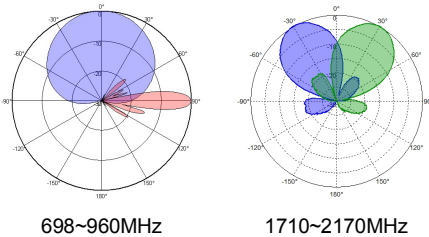
Electrical Specifications				
Frequency range (MHz)	R1/R2-698~960×2			
	698~803	790~862	824~894	880~960
Polarization	±45°			
Gain over all tilts (dBi)	15.5±0.6	16.0±0.5	16.2±0.4	16.1±0.5
Horizontal 3dB beamwidth (°)	70±5	63±4	62±4	60±5
Vertical 3dB beamwidth (°)	8.3±0.7	7.5±0.5	7.3±0.4	7.1±0.4
Front to back ratio (dB) Total power, ±30°	>24	>25	>25	>24
Cross polar ratio (dB) (at Boresight)	>19	>18	>18	>18
Electrical downtilt (°)	2~10			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>15	>15
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥25 (R1//R2) ≥28 (R1,R2//B1,B2,B3,B4)			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	400			
Lightning protection	Dc Ground			

Electrical Specifications			
Frequency Range (MHz)	B1/B2,B3/B4-1710~2170×4		
	1710~1880	1850~1990	1920~2170
Polarization	±45°		
Gain over all tilts (dBi) (Bottom)	17.4±0.6	17.8±0.6	18.3±0.8
Gain over all tilts (dBi) (Top)	16.9±0.6	17.3±0.6	17.8±0.8
Horizontal beam centers (°)	±26	±25	±23
Horizontal 3dB beamwidth (°)	35±3	31±4	28±4
Vertical 3dB beamwidth (°)	7.5±0.7	6.9±0.5	6.5±0.6
Front to back ratio (dB) Total power, ±30°	>26	>26	>27
Electrical downtilt (°)	2~10		
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>15	>15
VSWR	<1.5		
Isolation: intra-system (dB)	≥25		
Isolation: inter-system (dB)	≥15 (beam to beam, 1710~2170//1710~2170)		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Impedance (Ω)	50		
Max. power per input (W) @50°C	200		
Lightning protection	Dc Ground		

Mechanical Specifications	
Connector	12×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2780×499×178
Packing size (mm)	3220×620×330
Antenna weight (kg)	51.7
Installation kit weight (kg)	8.7
Packing weight (kg)	69.2
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	1535/634/1716
Max. wind velocity (km/h)	250
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0-8
Operating temperature (°C)	-50~65
Mounting hardware (mm)	Φ50~Φ115

Integrated RET Properties	
RET model	TRCU-TQ10P2V01
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 (°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**



View from the front of the antenna

Ant Array	RET Unique ID
R1	TY000R10xxxxxxxxxxxx
R2	TY000R20xxxxxxxxxxxx
B1	TY000B10xxxxxxxxxxxx
B2	TY000B20xxxxxxxxxxxx
B3	TY000B30xxxxxxxxxxxx
B4	TY000B40xxxxxxxxxxxx