

XXXXXXXXPoI 698~960MHz/1710~2170MHz×2/2490~2690MHz×2/1710~2170MHz×2
 65°/65°/65°/Dual-beam 33° 16.5/17/17.5/18.5dBi 2°~12°/2°~12°/2°~12°/2°~12° Integrated
 RCU (Remote Control Unit) Antenna

Electrical specifications

Frequency Range (MHz)	R1: 698~960			B1/B2: 1710~2170×2		Y1/Y2: 2490~2690×2
	698~790	790~880	880~960	1710~1920	1920~2170	2490~2690
Polarization	±45°					
Gain at mid tilt (dBi)	16.0	16.4	16.6	16.8	17.0	17.5
Gain over all tilts (dBi)	15.8±0.5	16.2±0.4	16.4±0.4	16.6±0.5	16.8±0.4	17.2±0.4
Horizontal 3dB beamwidth (°)	68±5.6	66±5.2	60±4.8	68±6.3	66±5.8	60±6.3
Vertical 3dB beamwidth (°)	9.5±0.7	8.8±0.6	8.2±0.5	7.8±0.6	6.8±0.6	5.7±0.5
Front to back ratio (dB) Total power, ±30°	>25	>26	>26	>25	>25	>26
Cross polar ratio (dB) (at Boresight)	>15	>17	>17	>17	>17	>16
Electrical downtilt (°)	2~12		2~12		2~12	
Sidelobe suppression (dB) (First sidelobe above main beam)	>19	>18	>18	>18	>17	>16
VSWR	<1.5					
Isolation: intra-system (dB)	≥25					
Isolation: inter-system (dB)	≥25					
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc					
Impedance (Ω)	50					
Max. power per input (W) @50°C	400			250		250
Lightning protection	Dc Ground					

Electrical specifications

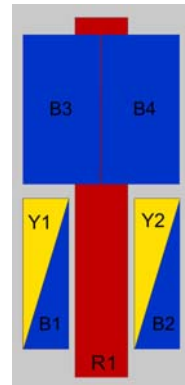
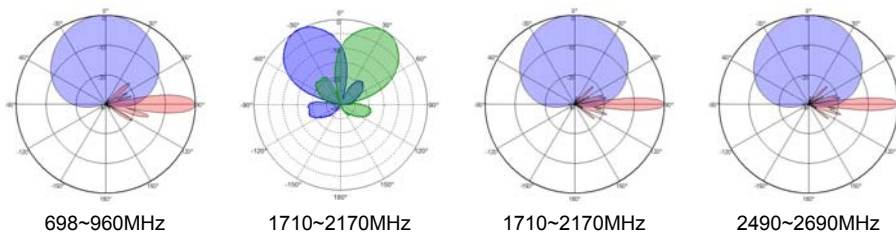
Frequency Range (MHz)	B3/B4: 1710~2170×2		
	1710~1880	1880~1920	1920~2170
Polarization	±45°		
Gain at mid tilt (dBi)	18.0	18.4	18.6
Gain over all tilts (dBi)	17.8±0.5	18.2±0.3	18.4±0.4
Horizontal beam centers (°)	±29	±26	±25
Horizontal 3dB beamwidth (°)	34±3	31±3	30±3
Vertical 3dB beamwidth (°)	7.2±0.5	6.8±0.4	6.2±0.4
Front to back ratio (dB) Total power, ±30°	>25	>26	>27
Electrical downtilt (°)	2~12		
Sidelobe suppression (dB) (First sidelobe above main beam)	>18	>17	>17
VSWR	<1.5		
Isolation: intra-system (dB)	≥25		
Isolation: inter-system (dB)	≥16		
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc		
Impedance (Ω)	50		
Max. power per input (W) @50°C	250		
Lightning protection	Dc Ground		

Mechanical specifications

Connector	14×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2780×355×165
Packing size (mm)	3115×460×260
Antenna weight (kg)	40
Installation kit weight (kg)	5.4
Packing weight (kg)	52
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	998/350/1070
Max. wind velocity (km/h)	216
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


Ant Array	RET Unique ID
R1	TY00000.....R1
B1	TY00000.....B1
B2	TY00000.....B2
B3	TY00000.....B3
B4	TY00000.....B4
Y1	TY00000.....Y1
Y2	TY00000.....Y2