

**XXXXXXXXXPol 698~960MHz×4/1710~2690MHz×4 Dual-beam 33°/Dual-beam 33° 15.7/19.5dBi 2°~10°/2°~10°
Integrated RCU (Remote Control Unit) Antenna**

Electrical Specifications			
Frequency range (MHz)	R1/R2/R3/R4 -698~960×4		
	698~806	806~880	880~960
Polarization	±45°		
Gain at mid tilt (dBi) (Bottom)	14.6	15.4	15.7
Gain over all tilts (dBi) (Bottom)	14.4±0.3	15.2±0.4	15.5±0.4
Gain at mid tilt (dBi) (Top)	14.2	15	15.3
Gain over all tilts (dBi) (Top)	14.0±0.3	14.8±0.4	15.1±0.4
Horizontal beam centers (°)	±31	±29	±27
Horizontal 3dB beamwidth (°)	38±3	35±3	33±3
Vertical 3dB beamwidth (°)	18.0±2.0	16.5±1.8	15.2±1.5
Front to back ratio (dB) Total power, ±30°	>28	>27	>27
Electrical downtilt (°)	2~10		
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>15
VSWR	<1.5		
Isolation: intra-system (dB)	>25		
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)	Y1/Y2/Y3/Y4-1710~2690×4		
	1710~1880	1880~2170	2300~2690
Polarization	±45°		
Gain at mid tilt (dBi) (Bottom)	18.4	19.2	19.5
Gain over all tilts (dBi) (Bottom)	18.2±0.9	19.0±0.9	19.3±1.2
Gain at mid tilt (dBi) (Top)	18.0	18.8	19.1
Gain over all tilts (dBi) (Top)	17.8	18.6±0.9	18.9±1.2
Horizontal beam centers (°)	±29	±26	±22
Horizontal 3dB beamwidth (°)	34±3	32±3	30±3
Vertical 3dB beamwidth (°)	7.4±0.9	6.6±0.9	5.6±0.8
Front to back ratio (dB) Total power, ±30°	>28	>29	>31
Electrical downtilt (°)	2~10		
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>15	>15
VSWR	<1.5		
Isolation: intra-system (dB)	>25		
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc		
Impedance (Ω)	50		
Max. power per input (W) @50°C	250		
Lightning protection	Dc Ground		

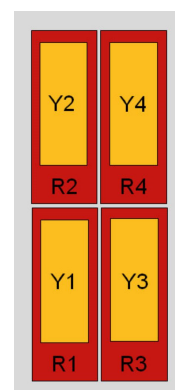
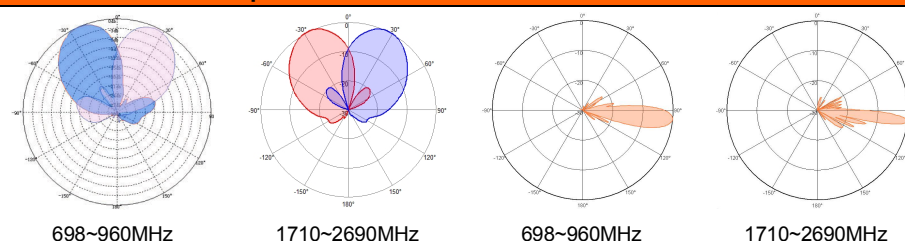
Mechanical Specifications

Connector	16×4.3-10-Female
Connector position	Bottom
Height × width × depth (mm)	2680×630×175
Packing size (mm)	2915×750×290
Antenna weight (kg)	58.2
Installation kit weight (kg)	12.8
Packing weight (kg)	81
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-TQ20P2V01
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
R2	TY00000.....R2
R3	TY00000.....R3
R4	TY00000.....R4
Y1	TY00000.....Y1
Y2	TY00000.....Y2
Y3	TY00000.....Y3
Y4	TY00000.....Y4