

XXXXPol 698~960MHz×2/1710~2690MHz×2 65°/65° 14.6/18.5dBi 2°~12°/2°~12° Integrated RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	R1/R2-698~960			
	698~806	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	13.7	14.0	14.3	14.6
Gain over all tilts (dBi)	13.5±0.5	13.8±0.5	14.1±0.5	14.4±0.5
Horizontal 3dB beamwidth (°)	69±5	64±5	63±5	61±5
Vertical 3dB beamwidth (°)	15.6±1.2	14.2±1.2	13.4±1.1	12.6±1
Front to back ratio (dB)	>22	>24	>25	>25
Total power, ±30°				
Cross polar ratio (dB) (at Boresight)	>16	>18	>18	>17
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>16	>16
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	R1//R2 ≥ 25 R1, R2//(Y1,Y2) ≥ 25			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	500			
Lightning protection	Dc Ground			

Electrical Specifications				
Frequency Range (MHz)	Y1/Y2 -1710-2690			
	1710~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	17.1	17.5	18.0	18.5
Gain over all tilts (dBi)	17.0±0.5	17.3±0.5	17.8±0.5	18.3±0.5
Horizontal 3dB beamwidth (°)	68±5	66±5	64±5	59±5
Vertical 3dB beamwidth (°)	6.9±0.5	6.1±0.6	5.3±0.6	4.8±0.5
Front to back ratio (dB)	>28	>28	>29	>29
Total power, ±30°				
Cross polar ratio (dB) (at Boresight)	>17	>18	>17	>18
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>16	>16
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥28			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	200			
Lightning protection	Dc Ground			

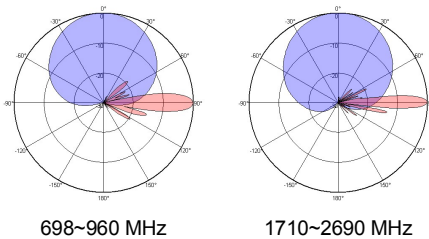
Mechanical Specifications

Connector	8×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	1499×446×198
Packing size (mm)	1780×510×250
Antenna weight (kg)	24.5
Installation kit weight (kg)	5.4
Packing weight (kg)	32.5
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	440/145/575
Max. wind velocity (km/h)	250
Radome material	GFRPP
Radome color	Gray
Mechanical tilt (°)	0~15
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
R2	TY00000.....R2
Y1	TY00000.....Y1
Y2	TY00000.....Y2