

XXXXPol 694~960MHz×2/1710~2690MHz×2 65°/65° 17/18.5dBi 2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	R1/R2-694~960			
	694~806	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	16.3	16.5	16.8	17.0
Gain over all tilts (dBi)	16.1±0.5	16.3±0.5	16.6±0.5	16.8±0.5
Horizontal 3dB beamwidth (°)	69±7	64±5	62±5	59±7
Vertical 3dB beamwidth (°)	9.1±0.5	8.5±0.5	8.2±0.5	7.7±0.4
Front to back ratio (dB) Total power, ±30°	>24	>25	>25	>26
Cross polar ratio (dB) (at Boresight)	>17	>19	>19	>19
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>16	>16
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	R1//R2 ≥ 25 R1,R2//(Y1,Y2)≥ 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)	Y1/Y2 -1710-2690			
	1710~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	17.1	17.5	18	18.5
Gain over all tilts (dBi)	17±0.6	17.4±0.6	17.8±0.6	18.3±0.6
Horizontal 3dB beamwidth (°)	66±6	63±6	62±6	58±6
Vertical 3dB beamwidth (°)	6.9±0.5	6.1±0.6	5.3±0.6	4.8±0.5
Front to back ratio (dB) Total power, ±30°	>28	>28	>29	>29
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	250			
Lightning protection	Dc Ground			

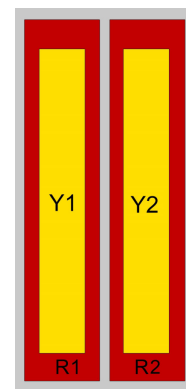
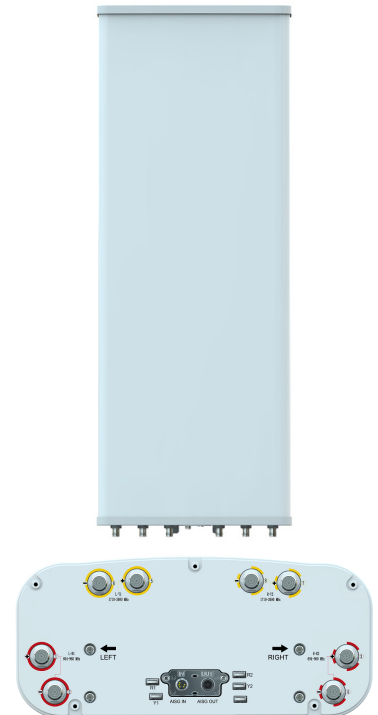
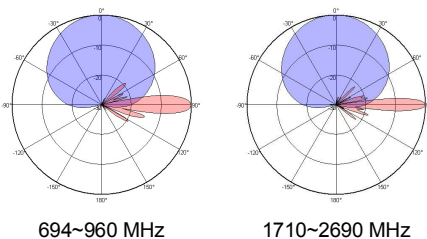
Mechanical Specifications

Connector	8×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2550×446×198
Packing size (mm)	2830×510×250
Antenna weight (kg)	34.8
Installation kit weight (kg)	7.5
Packing weight (kg)	53.5
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	770/265/1070
Max. wind velocity (km/h)	250
Radome material	GFRPP
Radome color	Gray
Mechanical tilt (°)	0~10
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