

XXXPol 698~960MHz/1710~2690MHzx2 65°/65° 14.9/17.7dBi 2°~14°/2°~12° Integrated RCU
(Remote Control Unit) Antenna.

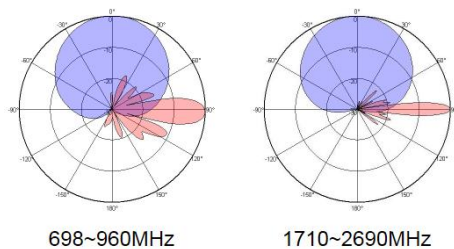
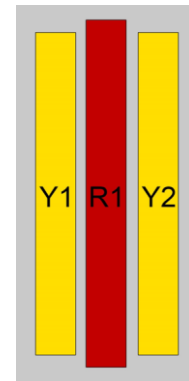
Electrical specifications				
Frequency Range(MHz)	698~960			
	698~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	14.2	14.6	14.9	15.1
Gain over all tilts (dBi)	14.0±0.4	14.4±0.4	14.7±0.4	14.9±0.5
Horizontal 3dB beamwidth (°)	70±4	67±3	66±3	64±3
Vertical 3dB beamwidth (°)	16.1±1.4	14.7±0.8	14.1±1.0	12.9±0.8
Front to back ratio (dB)	>24	>24	>25	>25
Total power, ±30°				
Cross polar ratio (dB) (at Boresight)	>19	>19	>18	>18
Electrical downtilt (°)	2~14			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>17	>17	>18
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥30			
Intermodulation IM3 (2x43dBm carrier)	≤-153dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	400			
Lightning protection	DC Ground			

Electrical specifications				
Frequency Range(MHz)	1710~2690x2			
	1710~1920	1920~2200	2200~2500	2500~2690
Polarization	±45°			
Gain at mid tilt (dBi)	17.5	18.0	18.1	17.5
Gain over all tilts (dBi)	17.3±0.5	17.7±0.5	17.8±0.5	17.3±0.8
Horizontal 3dB beamwidth (°)	66±8	59±6	60±6	67±6
Vertical 3dB beamwidth (°)	7.1±0.5	6.4±0.5	5.5±0.4	5±0.4
Front to back ratio (dB)	>23	>24	>23	>23
Total power, ±30°				
Cross polar ratio (dB) (at Boresight)	>22	>21	>21	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>16	>17	>16
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥30			
Intermodulation IM3 (2x43dBm carrier)	≤-153dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	200			
Lightning protection	DC Ground			

Mechanical specifications	
Connector	6x4.3-10-Female
Connector position	Bottom
Heightxwidthxdepth (mm)	1499x355x165
Packing size (mm)	1835x460x260
Antenna weight (kg)	19.7
Installation kit weight (kg)	5.4
Packing weight (kg)	28.8
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	598/187/669
Max. wind velocity (km/h)	216
Radome material	Fiberglass
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	2x8 Pin circle connector according to IEC60130-9 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



Ant Array	RET Unique ID
R1	TY00000.....R1
Y1	TY00000.....Y1
Y2	TY00000.....Y2