

XXXXXXXXXPol 617~698MHz/824~894MHz/1710~2690MHz×6 65°/65°/65° 15/16/17.7dBi 2°~10°/2°~10°/2°~12° Integrated RCU (Remote Control Unit) Antenna

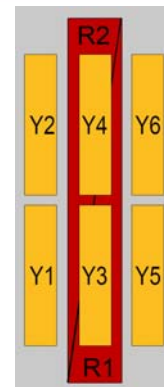
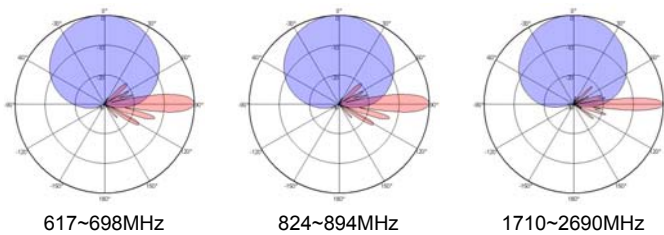
Electrical specifications						
Frequency Range (MHz)	R1:617~698	R2:824~894	Y1~Y6: 1710~2690×6			
	617~698	824~894	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°	±45°	±45°			
Gain at mid tilt (dBi) (Bottom)	15.0	16.0	17.0	17.2	17.7	17.5
Gain over all tilts (dBi) (Bottom)	14.8±0.5	15.8±0.7	16.9±0.5	17.0±0.5	17.5±0.5	17.3±0.5
Gain at mid tilt (dBi) (Top)	/	/	16.5	16.7	17.3	17.3
Gain over all tilts (dBi) (Top)	/	/	16.4±0.5	16.5±0.5	17.2±0.5	17.1±0.5
Horizontal 3dB beamwidth (°)	69±1.0	68±1.7	67±6.1	63±3.7	61±3.5	61±2.7
Vertical 3dB beamwidth (°)	10.8±0.7	8.1±0.4	7.4±0.7	6.6±0.5	5.8±0.4	5.8±0.4
Front to back ratio (dB) Total power, ±30°	>22	>24	>25	>25	>25	>24
Cross polar ratio (dB) (at Boresight)	>18	>18	>15	>15	>15	>15
Electrical downtilt (°)	2~10	2~10	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>16	>16	>16	>16	>16
VSWR	<1.5					
Isolation: intra-system (dB)	≥25					
Isolation: inter-system (dB)	≥28					
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc					
Impedance (Ω)	50					
Max. power per input (W) @50°C	400	400	200			

Mechanical specifications

Connector	16×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2749×379×177
Packing size (mm)	3185×485×275
Antenna weight (kg)	50.8
Installation kit weight (kg)	8.7
Packing weight (kg)	65.5
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	1238/413/1470
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	TY000R1xxxxxx
R2	TY000R2xxxxxx
Y1	TY000Y1xxxxxx
Y2	TY000Y2xxxxxx
Y3	TY000Y3xxxxxx
Y4	TY000Y4xxxxxx
Y5	TY000Y5xxxxxx
Y6	TY000Y6xxxxxx