

XXXXPol 1710~2690MHz×4 65° 20dBi 2°~8° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	1710~2690×4			
	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	19.2	19.5	19.7	19.7
Gain over all tilts (dBi)	19.0±0.5	19.3±0.5	19.5±0.5	19.5±0.5
Horizontal 3dB beamwidth (°)	67±2.5	62±2.6	61±1.8	62±2.0
Vertical 3dB beamwidth (°)	5.0±0.4	4.4±0.3	4.1±0.3	3.6±0.3
Front to back ratio (dB) Total power, ±30°	>27	>27	>27	>27
Cross polar ratio (dB) (at Boresight)	>22	>22	>22	>22
Electrical downtilt (°)	2~8			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>16	>16
VSWR	≤1.5			
Isolation: intra-system (dB)	≥28			
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			

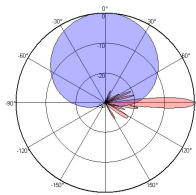
Mechanical Specifications

Connector	8×4.3-10-Female
Connector position	Bottom
Height × width × depth (mm)	1980×500×158
Packing size (mm)	2390×620×330
Antenna weight (kg)	32
Installation kit weight (kg)	5.4
Packing weight (kg)	44.5
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	1063/248/1130
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0~10
Operating temperature (°C)	-50~65
Mounting hardware (mm)	Φ50~Φ115

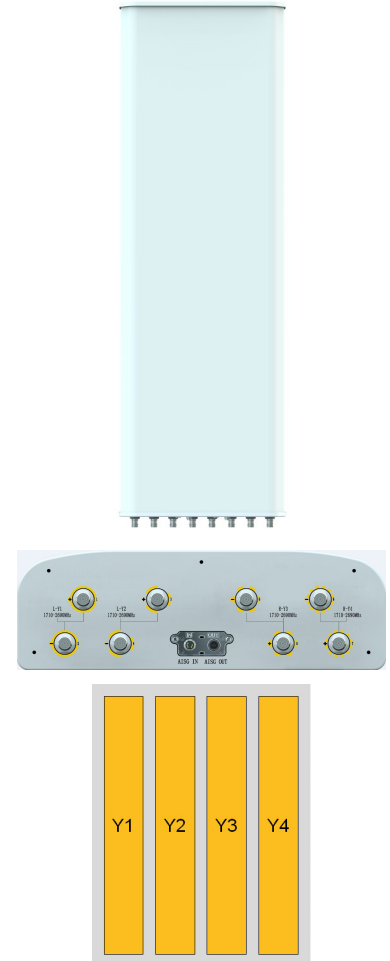
Integrated RET Properties

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



1710~2690MHz



Ant Array	RET Unique ID
Y1	TY00000.....Y1
Y2	TY00000.....Y2
Y3	TY00000.....Y3
Y4	TY00000.....Y4