

XXXXPol 698~862MHz/880~960MHz/1710~2690MHz×2 65°/65°/65° 16.5/17/18dBi 2°~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna,with Combiner Integrated

Electrical specifications

Frequency Range (MHz)	R1-698~862		R2-880~960
	698~803	790~862	880~960
Polarization	±45°		
Gain at mid tilt (dBi)	16.4	16.5	16.8
Gain over all tilts (dBi)	16.2±0.5	16.3±0.5	16.6±0.5
Horizontal 3dB beamwidth (°)	70±3	69±3	66±2
Vertical 3dB beamwidth (°)	9.1±0.7	8.3±0.5	7.7±0.5
Front to back ratio (dB) Total power, ±30°	>25	>25	>26
Cross polar ratio (dB) (at Boresight)	>17	>17	>19
Electrical downtilt (°)	2~12		2~12
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>15	>15
VSWR	<1.5		
Isolation: intra-system (dB)	≥25		
Isolation: inter-system (dB)	≥30		
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc		
Impedance (Ω)	50		
Max. power per input (W) @50°C	400		
Lightning protection	Dc Ground		

Electrical specifications

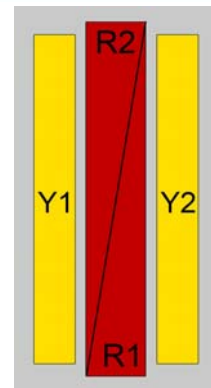
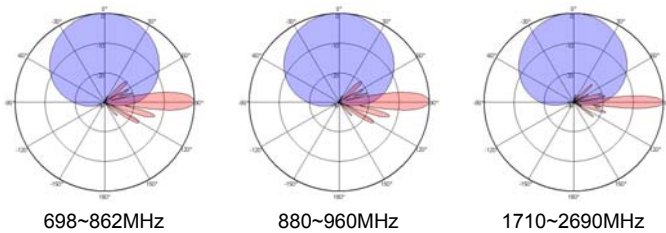
Frequency Range (MHz)	Y1/Y2-1710~2690×2			
	1710~1920	1920~2200	2200~2500	2500~2690
Polarization	±45°			
Gain at mid tilt (dBi)	17.1	17.5	17.8	18.0
Gain over all tilts (dBi)	16.9±0.6	17.3±0.5	17.6±0.5	17.8±0.5
Horizontal 3dB beamwidth (°)	67±6	60±5	60±6	66±5
Vertical 3dB beamwidth (°)	7.3±0.5	6.4±0.5	5.5±0.4	5±0.4
Front to back ratio (dB) Total power, ±30°	>25	>25	>25	>24
Cross polar ratio (dB) (at Boresight)	>19	>19	>19	>19
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>17	>17
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥30			
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)	2680×355×165
Packing size (mm)	3015×460×260
Antenna weight (kg)	30.5
Installation kit weight (kg)	5.4
Packing weight (kg)	41.8
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	1156/350/1373
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	TY00000.....R1
R2	TY00000.....R2
Y1	TY00000.....Y1
Y2	TY00000.....Y2