

XXXXXPoI 698~960MHz/1710~2690MHz×2/1710~2690MHz×2 65°/65°/65°
 15.7/16.2/15.7dBi 0°~10°/0°~10°/0°~10° Integrated RCU (Remote Control Unit) Antenna

Electrical specifications

Frequency Range (MHz)	R1 -698~960				Y1/Y3 -1710~2690×2			
	698~806	790~862	824~894	880~960	1710~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°				±45°			
Gain at mid tilt (dBi)	15.0	15.3	15.6	15.8	15.6	16.1	16.2	16.3
Gain over all tilts (dBi)	14.9±0.5	15.2±0.4	15.5±0.4	15.7±0.4	15.5±0.4	16±0.5	16.1±0.5	16.2±0.4
Horizontal 3dB beamwidth (°)	69±4	67±3	66±2	65±2	69±7	64±4	65±5	65±4
Vertical 3dB beamwidth (°)	11.4±0.6	10.1±0.2	9.6±0.4	9.1±0.3	9.6±0.4	8.0±0.5	7.2±0.6	6.4±0.3
Front to back ratio (dB) Total power, ±30°	>25	>25	>25	>25	>24	>24	>24	>24
Cross polar ratio (dB) (at Boresight)	>19	>19	>19	>19	>18	>18	>18	>18
Electrical downtilt (°)	0~10				0~10			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>16	>16	>16	>16	>15	>15
VSWR	<1.5				<1.5			
Isolation: intra-system (dB)	≥25				≥25			
Isolation: inter-system (dB)	≥30				≥30			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc				≤-153 dBc			
Impedance (Ω)	50				50			
Max. power per input (W) @50°C	400				200			
Lightning protection	Dc Ground							

Electrical specifications

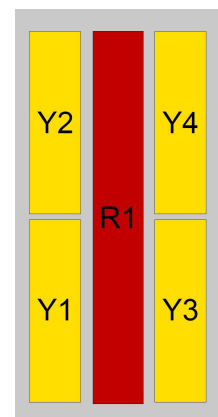
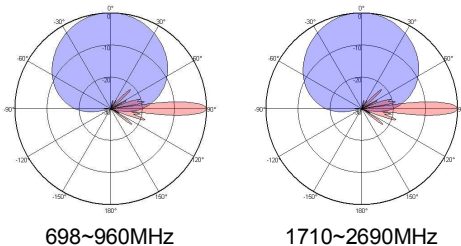
Frequency Range (MHz)	Y2/Y4-1710~2690×2			
	1710~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	15.1	15.4	15.6	15.8
Gain over all tilts (dBi)	15.0±0.4	15.3±0.5	15.5±0.6	15.7±0.6
Horizontal 3dB beamwidth (°)	69±8	65±4	66±4	66±5
Vertical 3dB beamwidth (°)	9.5±0.4	8.0±0.5	7.1±0.6	6.3±0.5
Front to back ratio (dB) Total power, ±30°	>24	>24	>24	>24
Cross polar ratio (dB) (at Boresight)	>18	>18	>18	>18
Electrical downtilt (°)	0~10			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>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	200			
Lightning protection	Dc Ground			

Mechanical specifications

Connector	10×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2080×355×165
Packing size (mm)	2415×460×260
Antenna weight (kg)	28.5
Installation kit weight (kg)	5.4
Packing weight (kg)	38.8
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	885/278/990
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


View from the front of the antenna

Ant Array	RET Unique ID
R1	TY00000.....R1
Y1	TY00000.....Y1
Y2	TY00000.....Y2
Y3	TY00000.....Y3
Y4	TY00000.....Y4