

XXXXXPoI 694~960MHz/1710~2170MHz×2/2490~2690MHz×2 65°/65°/65° 15/17.5/18dBi 2°~14°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna,with Combiner Integrated

Electrical specifications

Frequency Range (MHz)	R1-694~960			
	694~803	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) Total power, ±30°	>24	>24	>25	>25
Cross polar ratio (dB) (at Boresight)	>19	>19	>18	>18
Electrical downtilt (°)	2~14			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>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	400			
Lightning protection	Dc Ground			

Electrical specifications

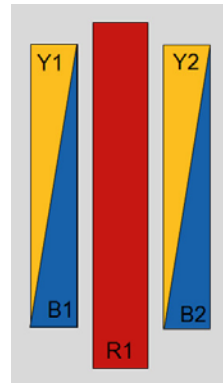
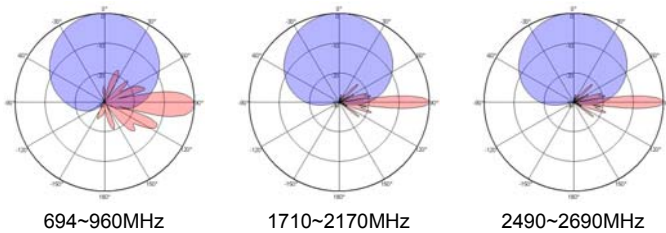
Frequency Range (MHz)	B1/B2-1710~2170			Y1/Y2-2490~2690
	1710~1880	1850~1990	1920~2170	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	17.0	17.1	17.3	17.5
Gain over all tilts (dBi)	16.8±0.5	16.9±0.5	17.1±0.5	17.3±0.5
Horizontal 3dB beamwidth (°)	67±6	60±5	60±6	66±5
Vertical 3dB beamwidth (°)	7.5±0.5	6.5±0.5	5.7±0.4	5±0.4
Front to back ratio (dB) Total power, ±30°	>25	>25	>25	>24
Cross polar ratio (dB) (at Boresight)	>16	>16	>16	>16
Electrical downtilt (°)	2~12			2~12
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>16	>16
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)	1499×355×165
Packing size (mm)	1835×460×260
Antenna weight (kg)	21
Installation kit weight (kg)	5.4
Packing weight (kg)	30
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	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
B1	TY00000.....B1
B2	TY00000.....B2
Y1	TY00000.....Y1
Y2	TY00000.....Y2