

XXXXPoI 698~960MHz/1710~2690MHz/1710~2690MHz×2 65°/65°/65° 15/17.6/18dBi 2°  
~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

**Electrical specifications**

Frequency Range (MHz)	C-R1-698~960			C-Y3-1710~2690			
	698~806	790~894	880~960	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°			±45°			
Gain at mid tilt (dBi)	13.9	14.4	15.0	16.9	17.1	17.6	17.5
Gain over all tilts (dBi)	13.8±0.5	14.3±0.5	14.8±0.6	16.8±0.6	17±0.7	17.4±0.6	17.3±0.7
Horizontal 3dB beamwidth (°)	68±4	66±4	64±3.5	67±7	66±6	60±6	58±7
Vertical 3dB beamwidth (°)	15.9±1.1	14.6±1.2	13.4±0.9	7.1±0.6	6.5±0.5	5.8±0.6	5.0±0.4
Front to back ratio (dB) Total power, ±30°	>23	>24	>24	>26	>26	>25	>24
Cross polar ratio (dB) (at Boresight)	>20	>20	>20	>18	>18	>17	>16
Electrical downtilt (°)	2~12			2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>16	>18	>17	>16	>15
VSWR	<1.5			<1.5			
Isolation: intra-system (dB)	>25			>25			
Isolation: inter-system (dB)	>28			>28			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			≤-153 dBc			
Impedance (Ω)	50			50			
Max. power per input (W) @50°C	500			250			
Lightning protection	DC Ground						

**Electrical specifications**

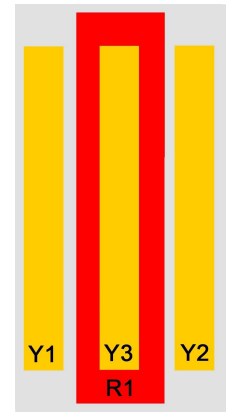
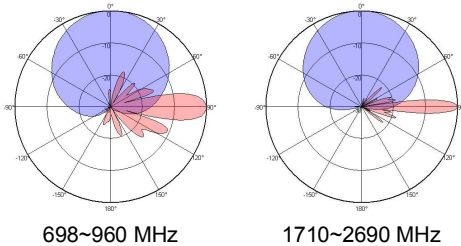
Frequency Range (MHz)	L-Y1/R-Y2 -1710~2690			
	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	17.0	17.2	17.7	18.0
Gain over all tilts (dBi)	16.8±0.6	17.1±0.7	17.5±0.7	17.8±0.7
Horizontal 3dB beamwidth (°)	68±6	66±6	60±5	60±5
Vertical 3dB beamwidth (°)	7.1±0.6	6.5±0.5	5.8±0.6	5.0±0.4
Front to back ratio (dB) Total power, ±30°	>25	>25	>25	>25
Cross polar ratio (dB) (at Boresight)	>18	>18	>18	>18
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>18	>17	>16	>15
VSWR	<1.5			
Isolation: intra-system (dB)	>25			
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)	1499×379×177
Packing size (mm)	1885×485×275
Antenna weight (kg)	24.4
Installation kit weight (kg)	5.4
Packing weight (kg)	33.6
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	636/203/711
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
Y1	TY00000.....Y1
Y2	TY00000.....Y2
Y3	TY00000.....Y3