

XXXXXXXXXPol 698~960MHz×2/1710~2690MHz×2/1710~2690MHz×4 65°/65°/Dual-beam 33° 15.6/18.3/16.3dBi 2°~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

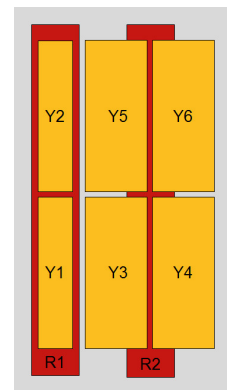
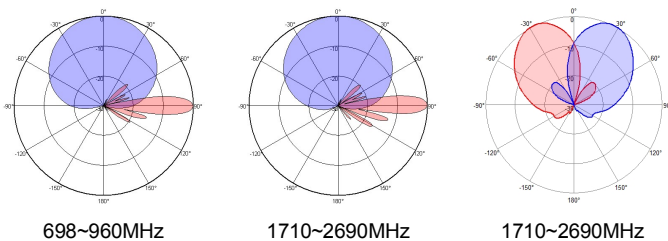
Electrical Specifications				
Frequency range (MHz)	R1/R2-698~960			
	698~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	14.9	15.2	15.4	15.6
Gain over all tilts (dBi)	14.7±0.6	15.0±0.5	15.2±0.5	15.4±0.5
Horizontal 3dB beamwidth (°)	70±5	66±4	64±4	62±5
Vertical 3dB beamwidth (°)	11.8±0.8	11.0±0.6	10.5±0.7	9.9±0.6
Front to back ratio (dB) Total power, ±30°	>23	>25	>25	>24
Cross polar ratio (dB) (at Boresight)	>15	>15	>15	>15
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>15	>15	>15
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥25 (R1//R2) ≥25 (R1,R2//Y1,Y2,Y3,Y4)			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	400			
Lightning protection	Dc Ground			

Electrical Specifications								
Frequency Range (MHz)	Y3/Y4/Y5/Y6-1710~2690				Y1/Y2-1710~2690			
	1710~1990	1920~2200	2200~2490	2490~2690	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°				±45°			
Gain at mid tilt (dBi) (Bottom)	17.5	17.8	18.3	17.8	15.3	15.7	16.0	16.3
Gain over all tilts (dBi) (Bottom)	17.3±0.7	17.6±0.7	18.1±0.6	17.6±0.6	15.1±0.6	15.5±0.5	15.8±0.5	16.1±0.6
Gain at mid tilt (dBi) (Top)	17.2	17.5	18.0	17.5	14.9	15.3	15.6	15.8
Gain over all tilts (dBi) (Top)	17.0±0.7	17.3±0.7	17.8±0.6	17.3±0.6	14.7±0.6	15.1±0.5	15.4±0.5	15.6±0.6
Horizontal beam centers (°)	±27	±26	±25	±23	\			
Horizontal 3dB beamwidth (°)	35±3	32±3	28±3	25±3	68±6	67±6	61±5	58±6
Vertical 3dB beamwidth (°)	9.8±0.6	8.6±0.6	7.5±0.5	6.8±0.5	10.0±1.0	8.8±0.8	7.8±0.8	7.5±0.8
Front to back ratio (dB) Total power, ±30°	>25	>25	>25	>25	>25	>25	>25	>25
Cross polar ratio (dB) (at Boresight)	>15	>15	>15	>15	>15	>15	>15	>16
Electrical downtilt (°)	2~10				2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>16	>15	>15	>15	>15	>15	>15
VSWR	<1.5				<1.5			
Isolation: intra-system (dB)	≥25				≥25			
Isolation: beam to beam (dB)	≥15				\			
Isolation: inter-system (dB)	\				≥25			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc				≤-150 dBc			
Impedance (Ω)	50				50			
Max. power per input (W) @50°C	200				200			
Lightning protection	Dc Ground							

Mechanical Specifications	
Connector	16×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2080×550×198
Packing size (mm)	2465×670×330
Antenna weight (kg)	75
Installation kit weight (kg)	7.3
Packing weight (kg)	93
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-TQ20P3V01
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
R2	TY00000.....R2
Y1	TY00000.....Y1
Y2	TY00000.....Y2
Y3	TY00000.....Y3
Y4	TY00000.....Y4
Y5	TY00000.....Y5
Y6	TY00000.....Y6