

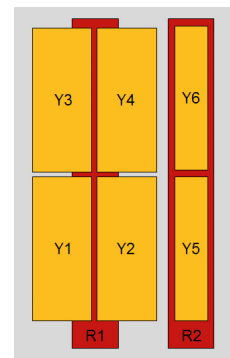
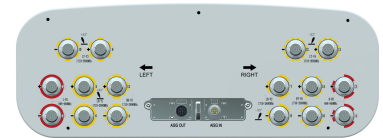
**XXXXXXXXXPol 698~960MHz×2/1710~2690MHz×2/1710~2690MHz×4 65°/65°/Dual-beam 33° 16.4/17.4/19.3dBi 2°~10°/2°~10°/2°~10° Integrated and replaceable RCU (Remote Control Unit) Antenna**

Electrical Specifications				
Frequency range (MHz)	R1/R2-698~960			
	698~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	15.7	16.2	16.4	16.3
Gain over all tilts (dBi)	15.5±0.6	16.0±0.5	16.2±0.5	16.1±0.5
Horizontal 3dB beamwidth (°)	70±5	66±4	64±4	62±5
Vertical 3dB beamwidth (°)	8.9±0.6	8.1±0.6	7.7±0.5	7.4±0.5
Front to back ratio (dB) Total power, ±30°	>24	>25	>25	>24
Cross polar ratio (dB) (at Boresight)	>19	>18	>18	>18
Electrical downtilt (°)	2~10			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>16	>16
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥25			
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)	Y1/Y2/Y3/Y4-1710~2690				Y5/Y6-1710~2690			
	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)	18.0	18.7	19.3	19.0	16.3	17.0	17.3	17.1
Gain over all tilts (dBi) (Bottom)	17.8±0.7	18.5±0.7	19.1±0.6	18.8±0.6	16.1±0.6	16.8±0.5	17.1±0.5	16.9±0.6
Gain at mid tilt (dBi) (Top)	17.6	18.3	18.9	18.6	16.0	16.7	17.0	16.8
Gain over all tilts (dBi) (Top)	17.4±0.7	18.1±0.7	18.7±0.6	18.4±0.6	15.8±0.6	16.5±0.5	16.8±0.5	16.6±0.6
Horizontal beam centers (°)	±28	±26	±24	±22				
Horizontal 3dB beamwidth (°)	35±3	32±3	28±3	25±3	68±6	67±6	61±5	58±6
Vertical 3dB beamwidth (°)	7.5±0.6	6.5±0.6	5.8±0.5	5.2±0.5	7.4±0.7	6.6±0.5	5.8±0.4	5.3±0.4
Front to back ratio (dB) Total power, ±30°	>26	>27	>27	>27	>25	>25	>25	>25
Cross polar ratio (dB) (at Boresight)	>18	>17	>17	>17	>17	>18	>18	>17
Electrical downtilt (°)	2~10				2~10			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>17	>17	>16	>16	>16	>16	>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							

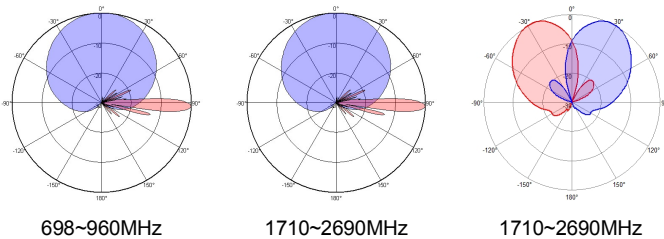
Mechanical Specifications	
Connector	16×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2680×550×198
Packing size (mm)	2955×615×250
Antenna weight (kg)	53.6
Installation kit weight (kg)	7.5
Packing weight (kg)	71.2
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	1713/409/1914
Max. 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-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



View from the front of the antenna

**Antenna Pattern Sample For Reference**



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