

XXXXPoi 698~960MHz×2/1427~2690MHz×2 65°/65° 16.2/19.7dBi 2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	R1/R2-698~960×2			
	698~806	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	15.2	15.6	16	16.2
Gain over all tilts (dBi)	15.0±0.5	15.4±0.5	15.8±0.5	16.0±0.5
Horizontal 3dB beamwidth (°)	68±6	64±4	64±4	65±5
Vertical 3dB beamwidth (°)	11.2±0.9	10.2±0.7	9.8±0.6	9.3±0.6
Front to back ratio (dB)	>21	>23	>25	>26
Total power, ±30°				
Cross polar ratio (dB) (at Boresight)	>20	>20	>20	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>17	>16	>15
Efficiency average(%)	89	87	86	85
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥25			
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)	Y1/Y2-1427~2690×2				
	1427~1518	1710~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°				
Gain at mid tilt (dBi)	16.9	18.7	19	19.4	19.7
Gain over all tilts (dBi)	16.7±0.5	18.5±0.5	18.8±0.5	19.2±0.5	19.5±0.6
Horizontal 3dB beamwidth (°)	70±5	64±3	61±4	60±4	59±4
Vertical 3dB beamwidth (°)	7.5±0.3	6.1±0.6	5.4±0.4	4.8±0.3	4.3±0.2
Front to back ratio (dB)	>27	>32	>32	>30	>30
Total power, ±30°					
Cross polar ratio (dB) (at Boresight)	>20	>20	>20	>20	>22
Electrical downtilt (°)	2~12				
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>16	>16	>17
Efficiency average(%)	89	88	86	85	83
VSWR	<1.5				
Isolation: intra-system (dB)	≥25	≥25			
Isolation: inter-system (dB)	≥27	≥28			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc				
Impedance (Ω)	50				
Max. power per input (W) @50°C	200				
Lightning protection	Dc Ground				

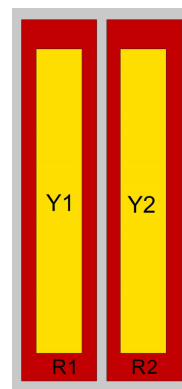
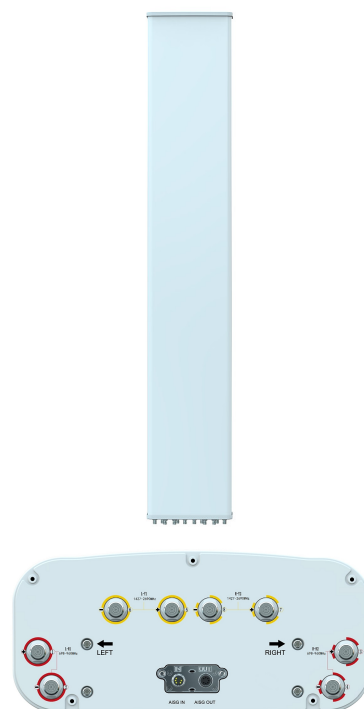
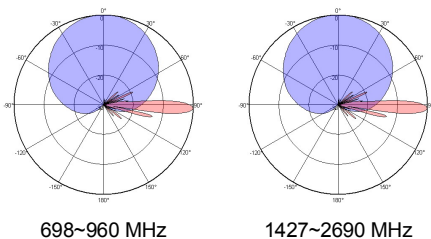
Mechanical Specifications

Connector	8×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	1999×446×198
Packing size (mm)	2290×510×250
Antenna weight (kg)	29.5
Installation kit weight (kg)	5.5
Packing weight (kg)	42.6
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	595/190/795
Max. wind velocity (km/h)	250
Radome material	GFRPP
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



Ant Array	RET Unique ID
R1	TY00000.....R1
R2	TY00000.....R2
Y1	TY00000.....Y1
Y2	TY00000.....Y2