

XXXXXXPol 694~960MHz×2/1710~2690MHz×4 65°/65° 16/18dBi 2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	R1/R2 -694~960			
	694~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	15.4	15.7	15.8	16.0
Gain over all tilts (dBi)	15.2±0.6	15.5±0.6	15.6±0.5	15.8±0.5
Horizontal 3dB beamwidth (°)	71±6	68±5	66±5	64±6
Vertical 3dB beamwidth (°)	11.8±0.9	10.4±0.6	10.0±0.5	9.3±0.6
Front to back ratio (dB)	>21	>22	>23	>23
Total power, ±30°				
Cross polar ratio (dB) (at Boresight)	>20	>19	>19	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>16	>16	>16
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/Y3/Y4-1710~2690			
	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	16.8	17.6	17.8	18.1
Gain over all tilts (dBi)	16.6±0.6	17.4±0.6	17.6±0.6	17.8±0.5
Horizontal 3dB beamwidth (°)	68±6	62±5	60±5	58±6
Vertical 3dB beamwidth (°)	7.2±0.6	6.6±0.5	5.9±0.5	5.3±0.4
Front to back ratio (dB)	>25	>26	>25	>26
Total power, ±30°				
Cross polar ratio (dB) (at Boresight)	>20	>19	>19	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>16	>16	>15
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	250			
Lightning protection	Dc Ground			

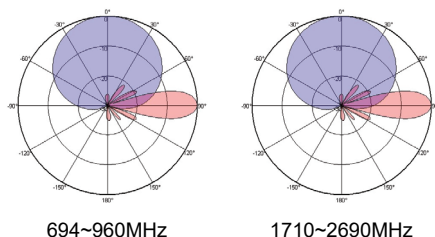
Mechanical Specifications

Connector	12×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2080×469×198
Packing size (mm)	2370×535×250
Antenna weight (kg)	32.2
Installation kit weight (kg)	5.5
Packing weight (kg)	46.3
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	903/273/924
Max. wind velocity (km/h)	250
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-TM20P2V03
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
Y3	TY00000.....Y3
Y4	TY00000.....Y4