

XPol 694~960MHz 45° 20.0dBi 1°~4° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	694~960			
	694~803	790~862	824~894	880~960
Polarization	±45°			
Gain over all tilts (dBi)	17.7	18.3	19.1	20.2
Horizontal 3dB beamwidth (°)	46	43	41	39
Vertical 3dB beamwidth (°)	9.0	8.2	7.8	7.3
Front to back ratio (dB) Total power, ±30°	>25	>25	>25	>25
Cross polar ratio (dB) (at Boresight)	>18	>18	>18	>18
Electrical downtilt (°)	1~4			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>16	>16	>16
Efficiency average(%)	80	78	77	77
VSWR	<1.5			
Isolation: intra-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			

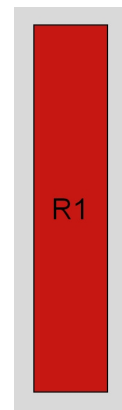
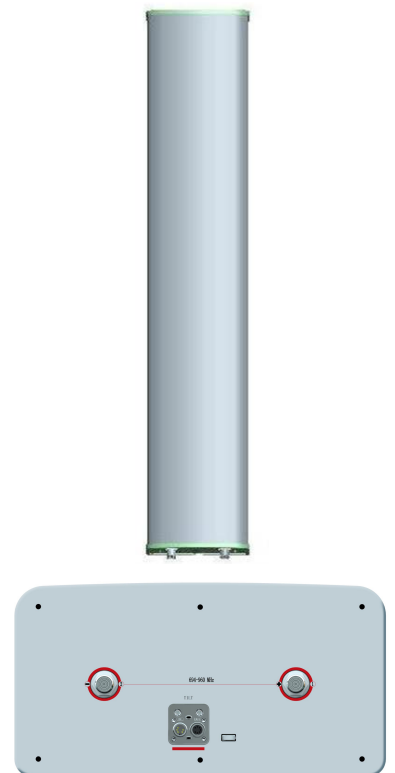
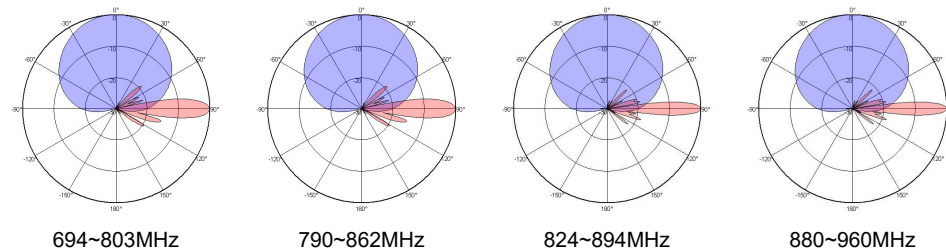
Mechanical Specifications

Connector	2×4.3-10-Female
Connector position	Bottom
Height × width × depth (mm)	2500×398×205
Packing size (mm)	2845×515×320
Antenna weight (kg)	28.2
Installation kit weight (kg)	5.4
Packing weight (kg)	40
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	1123/406/1193
Max. wind velocity (km/h)	250
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-TM10P1V01
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