

XPol 698~960MHz 65° 15dBi 0°~15° Integrated and replaceable RCU (Remote Control Unit) Antenna

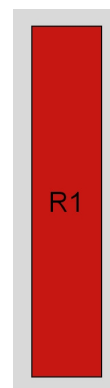
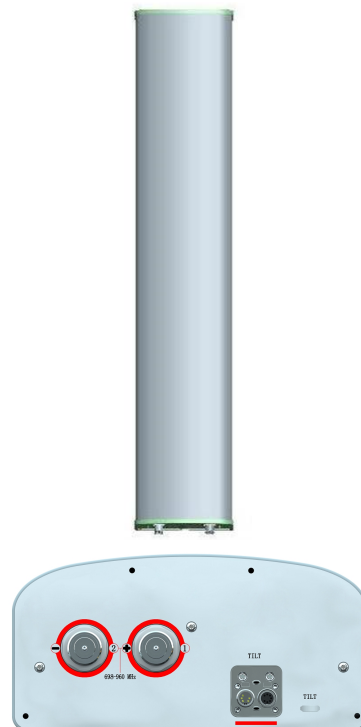
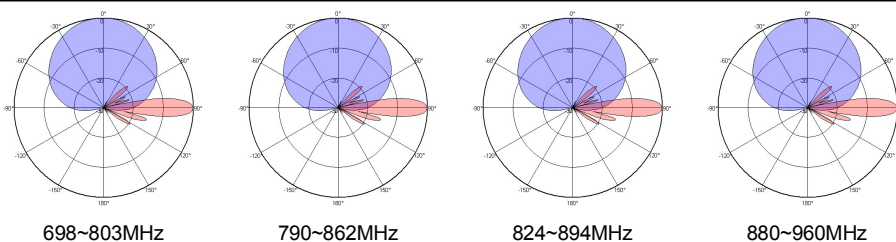
Electrical Specifications				
Frequency range (MHz)	698~960			
	698~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	14.2	14.4	14.7	15.0
Gain over all tilts (dBi)	14.0±0.3	14.2±0.3	14.5±0.4	14.8±0.3
Horizontal 3dB beamwidth (°)	68±2.4	66±2.1	65±2.0	64±2.2
Vertical 3dB beamwidth (°)	16.5±1.2	15.2±1.0	14.6±0.8	13.5±0.8
Front to back ratio (dB) Total power, ±30°	>24	>26	>25	>25
Cross polar ratio (dB) (at Boresight)	>18	>17	>17	>17
Cross polar ratio (dB) (over Sector)	>12	>10	>10	>8
Electrical downtilt (°)	0~15			
Sidelobe suppression (dB) (First sidelobe above main beam)	>18	>17	>15	>15
VSWR	<1.5			
Isolation: intra-system (dB)	≥28			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	300			
Lightning protection	Dc Ground			

Mechanical Specifications

Connector	2×4.3-10-Female
Connector position	Bottom
Height × width × depth (mm)	1380×300×146
Packing size (mm)	1765×400×280
Antenna weight (kg)	12.8
Installation kit weight (kg)	5.4
Packing weight (kg)	21.3
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	481/248/538
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0~15
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