

XXPol 698~960MHz/1710~2690MHz 65°/65° 15/17dBi 2°~15°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical specifications				
Frequency Range (MHz)	698~960			
	698~803	790~862	824~894	880~890
Polarization	±45°			
Gain at mid tilt (dBi)	14.2	14.4	14.5	14.7
Gain over all tilts (dBi)	14.0±0.5	14.2±0.4	14.3±0.4	14.5±0.5
Horizontal 3dB beamwidth (°)	68±5	67±5	67±5	66±5
Vertical 3dB beamwidth (°)	16.4±1.2	15.2±1.0	14.3±0.8	13.8±0.7
Front to back ratio (dB) Total power, ±30°	>23	>24	>25	>25
Cross polar ratio (dB) (at Boresight)	>22	>22	>23	>23
Electrical downtilt (°)	2~15			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>17	>17
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥28			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	400			
Lightning protection	DC Ground			

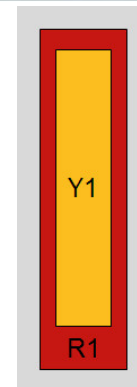
Electrical specifications				
Frequency Range (MHz)	1710~2690			
	1710~1920	1920~2200	2200~2490	2490~2690
Gain at mid tilt (dBi)	16.5	16.7	17.0	17.2
Gain over all tilts (dBi)	16.3±0.5	16.5±0.5	16.8±0.5	17.0±0.5
Horizontal 3dB beamwidth (°)	65±5	62±5	60±5	60±5
Vertical 3dB beamwidth (°)	7.3±0.5	6.5±0.4	5.7±0.4	5.2±0.4
Front to back ratio (dB) Total power, ±30°	>25	>26	>26	>25
Cross polar ratio (dB) (at Boresight)	>18	>18	>16	>16
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>16	>16
VSWR	<1.5			
Isolation: intra-system (dB)	>25			
Isolation: inter-system (dB)	>28			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	250			
Lightning protection	DC Ground			

Mechanical specifications

Connector	4×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	1550×300×146
Packing size (mm)	1935×400×280
Antenna weight (kg)	18.3
Installation kit weight (kg)	5.4
Packing weight (kg)	27.6
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	514/168/574
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-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



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

Antenna pattern sample for reference
