

XXXPol 790~960MHz/1710~2170MHz/1710~2170MHz 65°/65°/65° 17/17.4/17.5dBi 0°~10°/0°~10°/0°~10°
 Integrated and replaceable RCU (Remote Control Unit) Antenna.

Electrical specifications

Frequency Range(MHz)	R1-790~960		
	790~862	824~894	880~960
Polarization	±45°		
Gain at mid tilt (dBi)	16.5	16.8	17.0
Gain over all tilts (dBi)	16.3±0.4	16.6±0.4	16.8±0.3
Horizontal 3dB beamwidth (°)	69±5	67±4	65±4
Vertical 3dB beamwidth (°)	8.8±0.5	8.0±0.5	7.6±0.4
Front to back ratio (dB)	>25	>25	>25
Total power, ±30°	>25	>25	>25
Cross polar ratio (dB) (at Boresight)	>22	>20	>20
Electrical downtilt (°)	0~8		
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>16
VSWR	<1.5		
Isolation: intra-system (dB)	≥28		
Isolation: inter-system (dB)	≥30		
Intermodulation IM3 (2×43dBm carrier)	≤-153dBc		
Impedance (Ω)	50		
Max. power per input (W) @50°C	400		
Lightning protection	DC Ground		

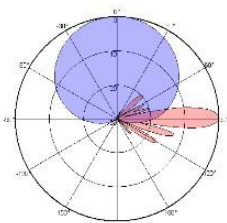
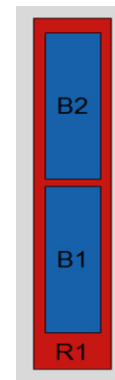
Electrical specifications

Frequency Range(MHz)	B1 -1710-2170			B2 -1710-2170		
	1710~1880	1850~1990	1920~2170	710~1880	1850~1990	1920~2170
Polarization	±45°					
Gain at mid tilt (dBi) (Bottom)	17.0	17.2	17.5	16.8	17.0	17.4
Gain over all tilts (dBi) (Bottom)	16.8±0.4	17.0±0.4	17.3±0.4	16.6±0.4	16.8±0.4	17.2±0.4
Horizontal 3dB beamwidth (°)	69±5	67±5	66±5	69±5	67±5	66±5
Vertical 3dB beamwidth (°)	7.6±0.5	7.2±0.4	6.8±0.4	7.0±0.4	6.5±0.4	6.0±0.3
Front to back ratio (dB)	>25	>25	>25	>25	>25	>25
Total power, ±30°	>25	>25	>25	>25	>25	>25
Cross polar ratio (dB) (at Boresight)	>19	>20	>20	>19	>20	>20
Electrical downtilt (°)	0~10			0~10		
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>17	>17	>17	>17
VSWR	<1.5					
Isolation: intra-system (dB)	≥28					
Isolation: inter-system (dB)	≥30					
Intermodulation IM3 (2×43dBm carrier)	≤-153dBc					
Impedance (Ω)	50					
Max. power per input (W) @50°C	200					
Lightning protection	DC Ground					

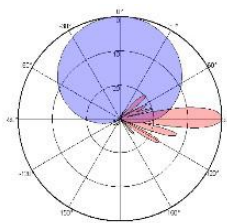
Mechanical specifications	
Connector	6x4.3-10-Female
Connector position	Bottom
Heightxwidthxdepth (mm)	2680x270x140
Packing size (mm)	3105x365x220
Antenna weight (kg)	26.8
Installation kit weight (kg)	5.4
Packing weight (kg)	38
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	903/330/1073
Max. wind velocity (km/h)	216
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-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	2x8 Pin circle connector according to IEC60130-9 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



790~960MHz



1710~2170MHz

Ant Array	RET Unique ID
R1	TY00000.....R1
B1	TY00000.....B1
B2	TY00000.....B2