

XXPol 698~960MHz/1710~2690MHz 65°/65° 15.8/17.5dBi 2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Tri-Sector Antenna,2XMIMO supported(Optional)

Electrical specifications

Frequency Range (MHz)	R1-698~960			
	698~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	14.7	15.0	15.5	15.8
Gain over all tilts (dBi)	14.5±0.8	14.8±0.5	15.3±0.4	15.5±0.5
Horizontal 3dB beamwidth (°)	70±6	68±5	65±5	63±5
Vertical 3dB beamwidth (°)	12.0±0.8	10.5±0.7	9.5±0.7	9.0±0.6
Front to back ratio(dB) Total power, 180°	>22	>24	>25	>26
Cross polar ratio (dB) (at Boresight)	>20	>20	>21	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>17	>17	>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	400			
Lightning protection	Dc Ground			

Electrical specifications

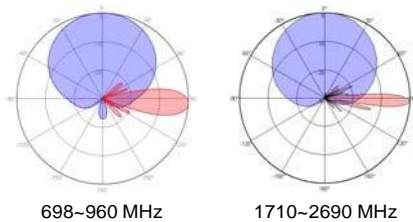
Frequency Range (MHz)	Y1-1710-2690			
	1710~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	16.5	17.0	17.5	17.3
Gain over all tilts (dBi)	16.3±0.5	16.8±0.5	17.3±0.6	17±0.5
Horizontal 3dB beamwidth (°)	68±7	72±5	72±5	70±5
Vertical 3dB beamwidth (°)	6.8±0.5	6.0±0.5	5.2±0.4	4.8±0.4
Front to back ratio(dB) Total power, 180°	>25	>26	>27	>26
Cross polar ratio (dB) (at Boresight)	>18	>18	>17	>15
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>16	>16
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	Y1, Y2/(R1)≥ 28			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	200			
Lightning protection	Dc Ground			

Mechanical specifications

Connector	3x4x4.3-10 Female
Connector position	Bottom
Height x width x depth (mm)	(1999+310)×Φ400
Packing size (mm)	2465x555x675
Antenna weight (kg)	54
Packing weight (kg)	62
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	782/782/782
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	White
Operating temperature (°C)	-50~65

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 x 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: 10-3 0V; Pin7: GND; Pin2 & Pin4 & Pin8: N/C

Antenna pattern sample for reference


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