

XXXXXXXXXXPol 698~960MHz×2/1710~2690MHz×4/1710~2690MHz×2 65°/65°/65°  
 15.8/15.7/16.0dBi 2°~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

**Electrical specifications**

Frequency Range (MHz)	R1/R2 -698~960			
	698~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	14.9	15.4	15.6	15.8
Gain over all tilts (dBi)	14.7±0.6	15.2±0.4	15.4±0.4	15.6±0.6
Horizontal 3dB beamwidth (°)	69±5.3	68±4.2	67±3.5	66±2.9
Vertical 3dB beamwidth (°)	11.0±1.1	9.9±0.5	9.7±0.4	9.2±0.5
Front to back ratio (dB) Total power, ±30°	>21	>23	>23	>24
Cross polar ratio (dB) (at Boresight)	>19	>20	>20	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>15	>15
VSWR	<1.5			
Isolation: intra-system (dB)	>25			
Isolation: inter-system (dB)	>25(R1//R2) >28(Other ports)			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	400			
Lightning protection	Dc Ground			

**Electrical specifications**

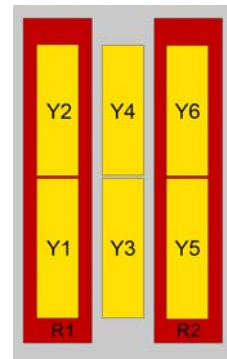
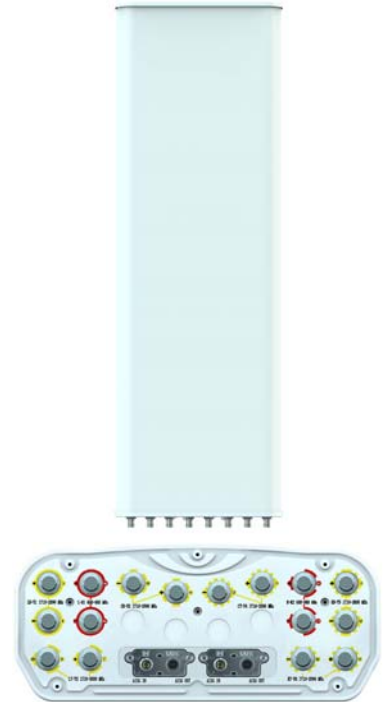
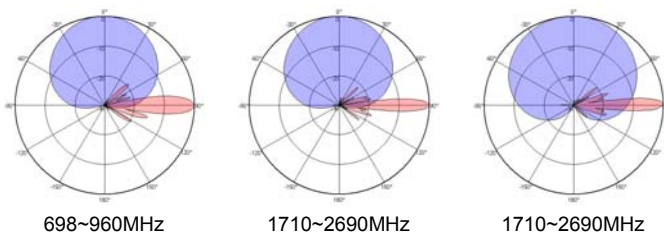
Frequency Range (MHz)	Y1/Y2/Y5/Y6: 1710~2690×4				Y3/Y4: 1710~2690			
	1710~1990	1920~2200	2200~2490	2490~2690	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°				±45°			
Gain at mid tilt (dBi) (Bottom)	15.0	15.2	15.5	15.7	15.3	15.5	15.7	16.0
Gain over all tilts (dBi) (Bottom)	14.9±0.4	15.1±0.4	15.3±0.6	15.5±0.5	15.1±0.4	15.4±0.4	15.6±0.5	15.8±0.9
Gain at mid tilt (dBi) (Top)	14.9	15.1	15.3	15.5	15.2	15.3	15.6	15.8
Gain over all tilts (dBi) (Top)	14.7±0.4	15.0±0.6	15.2±0.6	15.4±0.5	15.0±0.3	15.2±0.4	15.4±0.4	15.6±0.5
Horizontal 3dB beamwidth (°)	64±6.0	64±4.5	59±5.7	55±6.2	60±5.8	60±5.3	65±7.4	61±6.0
Vertical 3dB beamwidth (°)	9.2±1.1	8.0±0.7	7.3±0.7	6.5±0.7	9.6±1.1	8.4±0.7	7.6±0.7	6.8±0.6
Front to back ratio (dB) Total power, ±30°	>25	>25	>23	>23	>28	>28	>27	>28
Cross polar ratio (dB) (at Boresight)	>20	>18	>18	>18	>22	>17	>16	>21
Electrical downtilt (°)	2~12				2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>16	>15	>16	>16	>15	>15
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	200							
Lightning protection	Dc Ground							

**Mechanical specifications**

Connector	16×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2080×469×198
Packing size (mm)	2460×585×350
Antenna weight (kg)	41.6
Installation kit weight (kg)	5.4
Packing weight (kg)	54.9
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	903/273/924
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0-10
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


**Antenna pattern sample for reference**


Ant Array	RET Unique ID
R1	TY00000.....R1
R2	TY00000.....R2
Y1	TY00000.....Y1
Y2	TY00000.....Y2
Y3	TY00000.....Y3
Y4	TY00000.....Y4
Y5	TY00000.....Y5
Y6	TY00000.....Y6