XXXXXXXXXXPol 698~960MHz×2/1710~2690MHz×4/1710~2690MHz×4 65°/65°/65° 17/17.5/17dBi 2°~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna,with Bias Tee Integrated.

Electrical Specifications

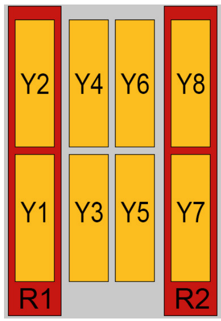
Frequency range (MHz)	R1/R2-698~960			
	698~806	790~862	824~894	880~960
Polarization	±45°			
Gain over all tilts (dBi)	15.5±0.4	15.8±0.4	16.0±0.4	16.1±0.4
Horizontal 3dB beamwidth (°)	66±4	65±5	65±6	67±5
Vertical 3dB beamwidth (°)	9.3±0.8	8.3±0.5	8.1±0.6	7.7±0.5
Front to back ratio (dB) Total power, ±30°	>22	>23	>24	>25
Cross polar ratio (dB) (at Boresight)	>18	>19	>19	>19
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)	R1//R2 ≥ 25 R1,R2//Others ≥ 28			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	400			
Lightning protection	DC Ground			

Electrical Specifications

Frequency Range (MHz)	Y1/Y2/Y7/Y8 -1710-2690				Y3/Y4/Y5/Y6 -1710-2690			
	1710~1920	1920~2200	2200~2490	2490~2690	1710~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°				±45°			
Gain over all tilts (dBi) (Bottom)	16.1±0.5	16.4±0.6	17.1±0.6	17.4±0.6	16.3±0.5	16.6±0.5	17.2±0.6	16.9±0.5
Gain over all tilts (dBi) (Top)	15.9±0.5	16.2±0.5	16.9±0.6	17.0±0.6	16.0±0.5	16.3±0.5	16.8±0.6	16.6±0.5
Horizontal 3dB beamwidth (°)	69±6	67±5	62±6	58±5	63±8	65±5	61±5	62±6
Vertical 3dB beamwidth (°)	7.5±0.5	6.7±0.5	5.9±0.4	5.3±0.5	7.6±0.5	6.8±0.6	5.9±0.5	5.3±0.4
Front to back ratio (dB) Total power, ±30°	>24	>25	>25	>24	>23	>23	>26	>26
Cross polar ratio (dB) (at Boresight)	>17	>16	>16	>16	>17	>15	>16	>16
Electrical downtilt (°)	2~12				2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>17	>17	>17	>16	>17	>17	>17
VSWR	<1.5				<1.5			
Isolation: intra-system (dB)	≥25				≥25			
Isolation: inter-system (dB)	≥27				Y3,Y4//Y5,Y6≥25 Y3,Y4,Y5,Y6//Others ≥27			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc				≤-153 dBc			
Impedance (Ω)	50				50			
Max. power per input (W) @50°C	200				200			
Lightning protection	DC Ground				DC Ground			

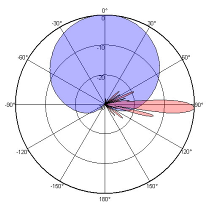
Mechanical Specifications	
Connector	20×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2680×499×198
Packing size (mm)	3120×620×330
Antenna weight (kg)	56.8
Installation kit weight (kg)	8.8
Packing weight (kg)	73.6
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	1485/435/1670
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0~8
Operating temperature (℃)	-40~65
Mounting hardware (mm)	Φ50~Φ115

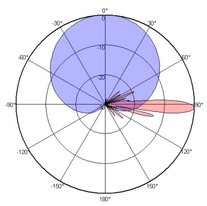
Integrated RET Properties	
RET model	TRCU-TQ22P3V01
RET type	Integrated RCU, Integrated Bias Tee from port 1
RET protocol	AISG 2.0 / 3GPP
Power supply(V)	10-30 DC
Power consumption(W)	≤0.6 (Idle,12V),≤6 (in Motion,12V)
Adjustment time (Full Range)	＜4Mins
Adjustment cycles	＞50,000
Temperature range (℃)	-40~65
Lightning protection	3KA(8/20μs) @ Pin5 & Pin3; 5KA(8/20μs) @ Pin1 / Pin6 & Pin7
Connectors	2x8 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

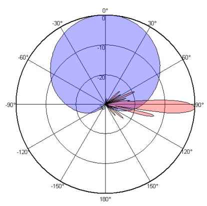


Ant Array	RET Unique ID
R1	TY00000……R1
R2	TY00000……R2
Y1	TY00000……Y1
Y2	TY00000……Y2
Y3	TY00000……Y3
Y4	TY00000……Y4
Y5	TY00000……Y5
Y6	TY00000……Y6
Y7	TY00000……Y7
Y8	TY00000……Y8

Antenna Pattern Sample For Reference


698-960 MHz


1710-2690 MHz


1710-2690 MHz