

XXXXXXXXXX Pol 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			

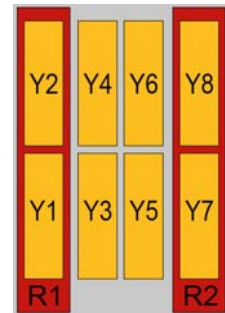
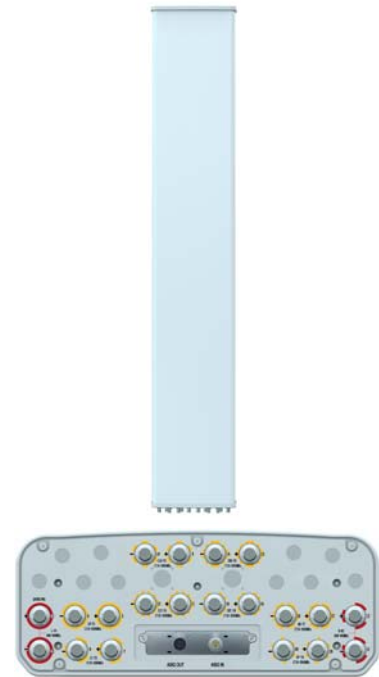
Electrical specifications								
Frequency Range (MHz)	Y1/Y2/Y7/Y8 -1710-2690				Y3/Y4/Y5/Y6 -1710-2690			
	1710~1920	1920~2200	2200~2490	2490~2690	1710~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°				±45°			
Gain over all tilts (dBi) (Bottom)	16.1±0.5	16.4±0.6	17.1±0.6	17.4±0.6	16.3±0.5	16.6±0.5	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/Rearside	1485/435/1670
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0~8
Operating temperature (°C)	-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 (°C)	-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**
