

XXXXXXXXXPol 617~894MHz×2/1695~2690MHz×6 65°/65° 16.7/17.5dBi 2°~12°/2°~12°  
 Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical specifications			
Frequency Range (MHz)	R1/R2:617~894×2		
	617~698	698~806	806~894
Polarization	±45°		
Gain at mid tilt (dBi)	15.2	15.7	16.3
Gain over all tilts (dBi)	15.0±0.5	15.5±0.6	16.0±0.7
Horizontal 3dB beamwidth (°)	69±2.3	68±2	68±1.8
Vertical 3dB beamwidth (°)	10.4±0.5	9.1±0.5	7.9±0.4
Front to back ratio (dB) Total power, ±30°	>22	>23	>24
Cross polar ratio (dB) (at Boresight)	>18	>18	>18
Electrical downtilt (°)	2~12		
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>15	>16
VSWR	<1.5		
Isolation: intra-system (dB)	≥25		
Isolation: inter-system (dB)	R1//R2≥25 , ≥28(Other ports)		
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc		
Impedance (Ω)	50		
Max. power per input (W) @50°C	400		
Lightning protection	Dc Ground		

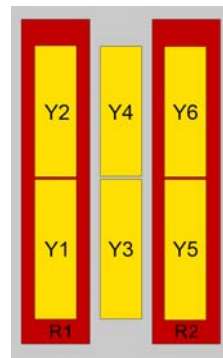
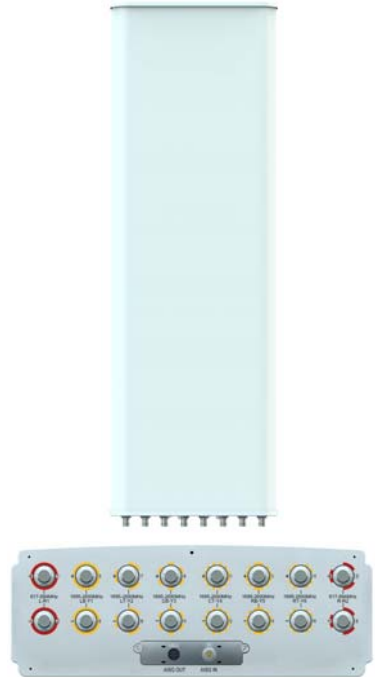
Electrical specifications								
Frequency Range (MHz)	Y1/Y2/Y5/Y6: 1695~2690×4				Y3/Y4: 1695~2690×2			
	1695~1990	1920~2200	2200~2490	2490~2690	1695~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°				±45°			
Gain at mid tilt (dBi) (Bottom)	16.9	17.2	17.5	17.3	17.1	17.4	17.7	17.5
Gain over all tilts (dBi) (Bottom)	16.7±0.5	17.0±0.5	17.3±0.5	17.1±0.5	16.9±0.5	17.2±0.5	17.5±0.5	17.3±0.6
Gain at mid tilt (dBi) (Top)	16.7	16.9	17.3	17.1	16.9	17.1	17.5	17.3
Gain over all tilts (dBi) (Top)	16.5±0.5	16.7±0.5	17.1±0.5	16.9±0.5	16.7±0.5	16.9±0.5	17.3±0.5	17.1±0.5
Horizontal 3dB beamwidth (°)	68±5	62±5	59±5	61±5	62±6	66±6	59±7	60±7
Vertical 3dB beamwidth (°)	7.3±0.7	6.5±0.6	5.7±0.5	5.1±0.6	7.2±0.7	6.4±0.6	5.8±0.5	5.2±0.6
Front to back ratio (dB) Total power, ±30°	>26	>26	>25	>25	>27	>28	>28	>27
Cross polar ratio (dB) (at Boresight)	>18	>18	>18	>18	>18	>18	>18	>18
Electrical downtilt (°)	2~12				2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>18	>18	>17	>17	>18	>18	>18	>18
VSWR	<1.5							
Isolation: intra-system (dB)	≥25							
Isolation: inter-system (dB)	≥28							
Intermodulation IM3 (2×43dBm carrier)	≤-153 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)	2680×499×178
Packing size (mm)	3120×620×330
Antenna weight (kg)	55.6
Installation kit weight (kg)	8.8
Packing weight (kg)	71.5
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	1497/290/1517
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-TQ20P3V01
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



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

**Antenna pattern sample for reference**
