

Electrical Specifications				
Frequency range (MHz)	Y1/Y2/Y3-1710~2690			
	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	17.3	17.6	17.8	18
Gain over all tilts (dBi)	17.1±0.9	17.4±0.7	17.6±0.5	17.8±0.5
Horizontal 3dB beamwidth (°)	66±2.4	65±1.5	62±1.4	60±1.4
Vertical 3dB beamwidth (°)	7.4±0.4	6.8±0.5	6.2±0.3	5.6±0.3
Front to back ratio(dB) Total power, 180°	>28	>28	>29	>30
Cross polar ratio (dB) (at Boresight)	>20	>20	>20	>18
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>16	>15
VSWR	≤1.5			
Cross Polar Isolation/Intra-Cluster isolation (dB)	≥28			
Inter-band Isolation/Inter-Cluster isolation (dB)	≥30			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			
Impedance (Ω)	50			
Efficiency	≥65%			
Max. power per input (W) @50°C	250			
Lightning protection	Dc Ground			

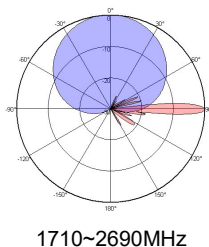
*Values calculated according to NGMN BASTA v11.1 requirement.

Mechanical Specifications	
Connector	6×4.3-10-Female
Connector position	Bottom
Height × width × depth (mm)	1360×379×177
Packing size (mm)	1640×445×230
Antenna weight (kg)	18.6
Installation kit weight (kg)	5.5
Packing weight (kg)	29
Wind load (N, at 150km/h) Frontal/Lateral/Rear	573/173/640
Max. wind velocity (km/h)	216
Radome material	Fiberglass, UV resistant
Radome color	Gray or colored by customized
Mechanical tilt (°)	0~15
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	Conns	RET Unique ID
Y1	2	TY00000.....Y1
Y2	2	TY00000.....Y2
Y3	2	TY00000.....Y3

Compliance

-Certified quality assurance system and environmental management system of company:

EN ISO9001, EN ISO 14001, OHSAS 18001, ETSI EN300019-1-1 Class 1.2

ETSI EN300019-1-2 Class 2.3 ETSI EN300019-1-4 Class 4.1;

-Environmentally regulations: ROHS, REACH;

-Comply with CE certification;