

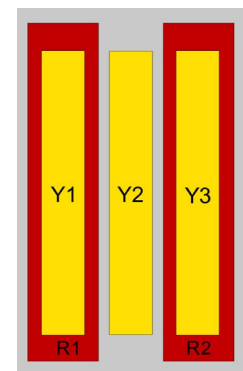
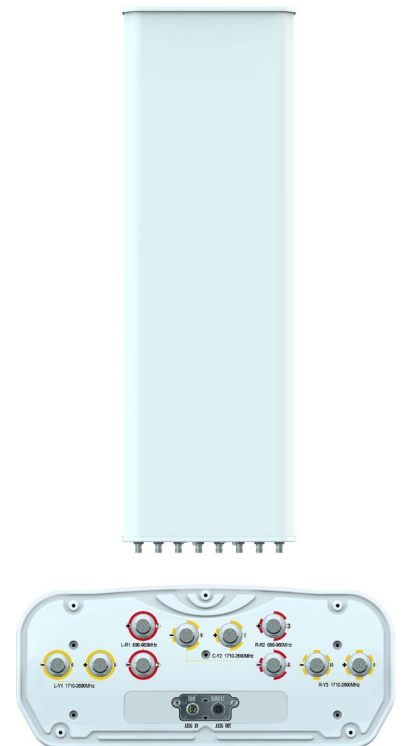
XXXXXPo1 698~960MHz×2/1710~2690MHz×2/1710~2690MHz 65°/65°/65° 16.0/17.5/17.7dBi 2°~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications								
Frequency range (MHz)	R1/R2 -698~960							
	698~803	790~862	824~894	880~960				
Polarization	±45°							
Gain at mid tilt (dBi)	14.8	15.4	15.7	16.0				
Gain over all tilts (dBi)	14.6±0.4	15.2±0.4	15.5±0.4	15.9±0.4				
Horizontal 3dB beamwidth (°)	68±5	65±4	64±4	64±3				
Vertical 3dB beamwidth (°)	11.7±0.6	10.7±0.4	10.3±0.5	9.5±0.5				
Front to back ratio (dB) Total power, ±30°	>22	>24	>24	>25				
Cross polar ratio (dB) (at Boresight)	>18	>18	>18	>18				
Electrical downtilt (°)	2~12							
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>17	>17	>16				
VSWR	<1.5							
Cross Polar Isolation/Intra-Cluster isolation (dB)	≥25							
Inter-band Isolation/Inter-Cluster isolation (dB)	≥25 (R1//R2) ≥28 (Other)							
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc							
Impedance (Ω)	50							
Efficiency	≥70%							
Max. power per input (W) @50°C	400							
Lightning protection	Dc Ground							
Electrical Specifications								
Frequency Range (MHz)	Y1/Y3-1710~2690				Y2-1710~2690			
	1710~1990	1920~2200	2200~2490	2490~2690	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°							
Gain at mid tilt (dBi)	17.1	17.3	17.4	17.5	17.2	17.4	17.5	17.7
Gain over all tilts (dBi)	17.0±0.5	17.1±0.5	17.2±0.5	17.4±0.5	17.1±0.5	17.3±0.5	17.4±0.5	17.6±0.5
Horizontal 3dB beamwidth (°)	67±2.2	64±1.5	60±1.2	59±1.4	63±2.2	59±1.5	63±1.2	62±1.4
Vertical 3dB beamwidth (°)	6.9±0.3	6.1±0.5	5.5±0.3	4.9±0.3	7.0±0.3	6.4±0.5	5.6±0.3	5.0±0.3
Front to back ratio (dB) Total power, ±30°	>25	>25	>25	>25	>28	>28	>28	>28
Cross polar ratio (dB) (at Boresight)	>20	>18	>17	>16	>19	>18	>17	>17
Electrical downtilt (°)	2~12							
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>16	>16	>16	>16	>16	>16
VSWR	<1.5							
Cross Polar Isolation/Intra-Cluster isolation (dB)	≥25							
Inter-band Isolation/Inter-Cluster isolation (dB)	≥28							
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc							
Impedance (Ω)	50							
Efficiency	≥70%							
Max. power per input (W) @50°C	200							
Lightning protection	DC Ground							

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

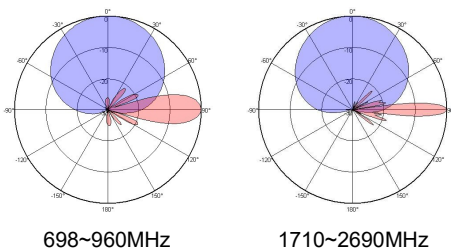
Mechanical Specifications	
Connector	10×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2080×469×198
Packing size (mm)	2460×585×350
Antenna weight (kg)	35.5
Installation kit weight (kg)	5.4
Packing weight (kg)	48.5
Wind load (N,at 150km/h) Frontal/Lateral/Rear	903/273/924
Max. wind velocity (km/h)	216
Radome material	Fiberglass, UV Resistant
Radome color	Gray or colored by customized
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



View from the front of the antenna

Antenna Pattern Sample For Reference



Ant Array	Conns	RET Unique ID
R1	2	TY00000.....R1
R2	2	TY00000.....R2
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;