

XXXXXXPol 694~960MHz×2/1695~2690MHz×2/1695~2690MHz×2 65°/65°/65° 15.4/16.6/16.4dBi 2°~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

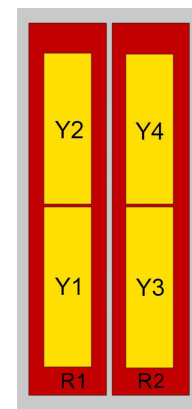
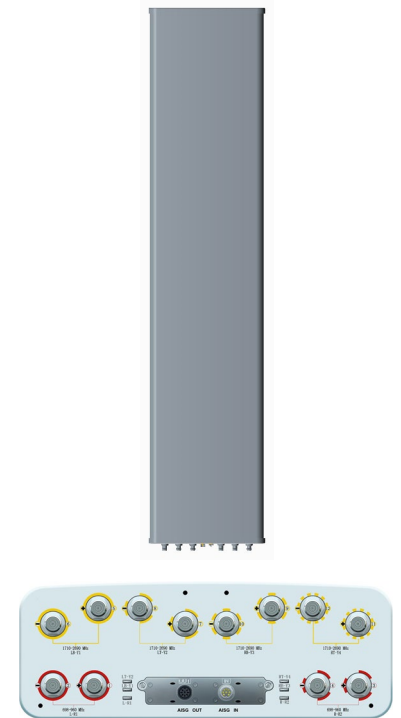
Electrical Specifications				
Frequency range (MHz)	R1/R2-694~960			
	694~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	14.5	15.0	15.3	15.4
Gain over all tilts (dBi)	14.5±0.4	14.8±0.4	15.1±0.4	15.2±0.3
Horizontal 3dB beamwidth (°)	67±4	64±4	61±3	58±3
Vertical 3dB beamwidth (°)	11.5±0.6	10.5±0.4	10.1±0.4	9.6±0.5
Front to back ratio (dB) Total power, ±30°	>21	>22	>22	>22
Cross polar ratio (dB) (at Boresight)	>20	>20	>21	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>16	>16	>16
VSWR	<1.5			
Cross Polar Isolation/Intra-Cluster isolation (dB)	≥25			
Inter-band Isolation/Inter-Cluster isolation (dB)	R1//R2≥25 R1,R2//Others≥27			
Intermodulation IM3 (2×43dBm carrier)	≤-153dBc			
Impedance (Ω)	50			
Efficiency	≥70%			
Max. power per input (W) @50°C	400			

Electrical Specifications								
Frequency Range (MHz)	Y1/Y3-1695~2690				Y2/Y4-1695~2690			
	1695~1920	1920~2200	2200~2490	2490~2690	1695~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°							
Gain at mid tilt (dBi)	15.7	16.3	16.5	16.6	15.5	16.1	16.3	16.4
Gain over all tilts (dBi)	16.0±0.7	16.1±0.6	16.3±0.7	16.5±0.8	16.0±0.7	16.3±0.7	16.2±0.8	16.5±0.8
Horizontal 3dB beamwidth (°)	67±2.2	65±1.5	64±1.4	62±1.4	66±2.2	67±1.5	65±1.4	63±1.4
Vertical 3dB beamwidth (°)	10.4±0.4	9.4±0.5	8.4±0.3	7.5±0.3	10.4±0.7	9.3±0.3	8.3±0.3	7.5±0.3
Front to back ratio (dB) Total power, ±30°	>25	>26	>26	>25	>26	>26	>26	>25
Cross polar ratio (dB) (at Boresight)	>17	>16	>16	>17	>17	>16	>16	>15
Electrical downtilt (°)	2~12				2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>15	>15	>14	>15	>15	>14	>14
VSWR	<1.5				<1.5			
Cross Polar Isolation/Intra-Cluster isolation (dB)	≥25				≥25			
Inter-band Isolation/Inter-Cluster isolation (dB)	≥28				≥28			
Intermodulation IM3 (2×43dBm carrier)	≤-153dBc							
Impedance (Ω)	50							
Efficiency	≥70%							
Max. power per input (W) @50°C	200							

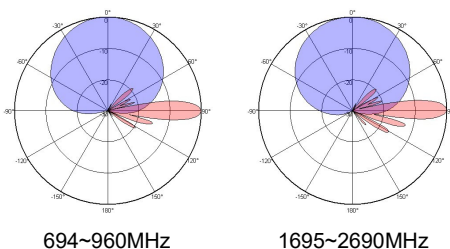
*Values calculated according to NGMN BASTA v11.1 requirement.

Mechanical Specifications	
Connector	12×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2080×446×165
Packing size (mm)	2395×510×215
Antenna weight (kg)	34
Installation kit weight (kg)	7.5
Packing weight (kg)	48.5
Wind load (N,at 150km/h) Frontal/Lateral/Rear	615/215/820
Max. wind velocity (km/h)	250
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-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



View from Antennas front side

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
Y4	2	TY00000.....Y4

Compliance

- Certified quality assurance system and environmental management system of company:
EN ISO9001, EN ISO 14001, OHSAS 18001, ETSI EN300019-1-1, ETSI EN300019-1-2;
- Environmentally regulations: ROHS, REACH;
- Comply with CE certification;