XXXXPol 698~960MHz×2/1710~2690MHz×2 65°/65° 16.0/18.3dBi 2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	R1/R2-698~960			
	698~806	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	15.0	15.5	15.8	16.0
Gain over all tilts (dBi)	14.8±0.4	15.3±0.4	15.6±0.3	15.8±0.4
Horizontal 3dB beamwidth (°)	69±5	66±4	64±3. 4	62±3. 4
Vertical 3dB beamwidth (°)	11±0.6	10.2±0.4	9.5±0.4	9±0.5
Front to back ratio (dB) Total power, ±30°	>22	>23	>24	>25
Cross polar ratio (dB) (at Boresight)	>17	>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//(Y1,Y2) ≥ 28			
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/Y2 -1710-2690			
	1710~1920	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	17.5	17.8	18.0	18.3
Gain over all tilts (dBi)	17.3±0.5	17.6±0.5	17.8±0.5	18.1±0.5
Horizontal 3dB beamwidth (°)	67±1. 2	65±1. 5	63±1. 4	59±1. 4
Vertical 3dB beamwidth (°)	6.8±0.4	6.0±0.5	5.5±0.3	4.9±0.3
Front to back ratio (dB) Total power, ±30°	>25	>26	>27	>26
Cross polar ratio (dB) (at Boresight)	>17	>18	>17	>16
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)	≥28			
Intermodulation IM3 (2×43dBm carrier)	≤-153dBc			
Impedance (Ω)	50			
Efficiency	⩾70%			
Max. power per input (W) @50°C	200			
Lightning protection	DC Ground			

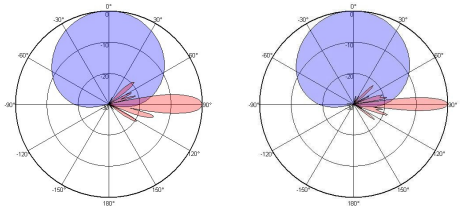
*Values calculated according to NGMN BASTA v11.1 requirement.

Mechanical Specifications	
Connector	8×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	1999×446×165
Packing size (mm)	2290×510×215
Antenna weight (kg)	30.3
Installation kit weight (kg)	5.4
Packing weight (kg)	43
Wind load (N,at 150km/h) Frontal/Lateral/Rear	705/190/650
Max. wind velocity (km/h)	216
Radome material	Fiberglass, UV Resistant
Radome color	Gray or colored by customized
Mechanical tilt (°)	0~10
Operating temperature (℃)	-50~65
Mounting hardware (mm)	φ50~ φ115

Integrated RET Properties	
RET model	TRCU-TQ10P2V01 (Replaceable, Included)
RET type	Integrated (Replaceable)
RET protocol	AISG 2.0/3GPP
Remote control	Can be controlled from OMC and BTS/NodeB and external tools
Daisy chain connection solution	Ready for daisy-chaining/cascade
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 (℃)	-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 front side

Antenna Pattern Sample For Reference



698~960MHz　　1710-2690MHz

Ant Array	Conns	RET Unique ID
R1	2	TY00000……R1
R2	2	TY00000……R2
Y1	2	TY00000……Y1
Y2	2	TY00000……Y2

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;