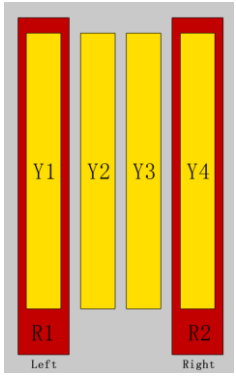
XXXXXXPol 698~960MHz×2/1710~2690MHz×4 65°/65° 15.5/18dBi 2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	R1/R2 -698~960			
	698~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	14.4	14.8	15.2	15.3
Gain over all tilts (dBi)	14.2±0.6	14.8±0.8	14.9±0.5	15.1±0.5
Horizontal 3dB beamwidth (°)	71±6	68±5	66±5	64±6
Vertical 3dB beamwidth (°)	11.8±0.9	11.1±0.6	10.7±0.5	10.2±0.6
Front to back ratio (dB) Total power, ±30°	>20	>21	>22	>23
Cross polar ratio (dB) (at Boresight)	>20	>19	>19	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>16	>16	>16
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	R1//R2≥25 R1,R2//Others≥26			
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/Y3/Y4-1710~2690			
	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain at mid tilt (dBi)	16.8	17.2	17.4	17.8
Gain over all tilts (dBi)	16.6±0.6	17.0±0.5	17.2±0.5	17.6±0.5
Horizontal 3dB beamwidth (°)	68±6	62±5	60±5	58±6
Vertical 3dB beamwidth (°)	7.6±0.6	7.0±0.5	6.1±0.5	5.5±0.4
Front to back ratio (dB) Total power, ±30°	>25	>26	>25	>26
Cross polar ratio (dB) (at Boresight)	>20	>19	>19	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>16	>16	>15
VSWR	<1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥26			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	200			
Lightning protection	Dc Ground			

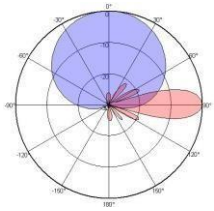
Mechanical Specifications	
Connector	12×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2050×499×198
Packing size (mm)	2465×620×350
Antenna weight (kg)	35
Installation kit weight (kg)	5.4
Packing weight (kg)	52.8
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	740/240/990
Max. wind velocity (km/h)	216
Radome material	fiberglass
Radome color	Gray
Mechanical tilt (°)	0-10
Operating temperature (℃)	-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 (℃)	-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
Technical requirements	The manufacturer of the supplied antennas is one of the Participants in the development of technical requirements for N-P-BASTA sectoral antennas (https://www.ngmn.org/about-us/our-partners.html). Full adherence to the recommendations from NGMN when testing antennas described in: “Recommendation on Standards for Passive Base Station Antennas v 12.”

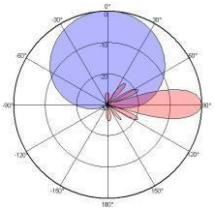


Ant Array	RET Unique ID
R1	TY00000.....R1
R2	TY00000.....R2
Y1	TY00000.....Y1
Y2	TY00000.....Y2
Y3	TY00000.....Y3
Y4	TY00000.....Y4

Antenna Pattern Sample For Reference



698~960MHz



1710~2690MHz