

XXXXPol 1710~2690MHz×4 Dual-beam 33° 19.4dBi 2°~12° Integrated RCU (Remote Control Unit) Antenna

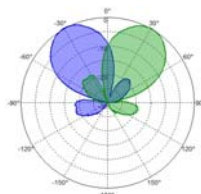
Electrical specifications				
Frequency Range (MHz)	1710~2690			
	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain over all tilts (dBi) (Bottom)	18.4±0.6	18.8±0.4	19.0±0.6	19.2±0.6
Gain over all tilts (dBi) (Top)	18.3±0.6	18.6±0.5	18.7±0.7	19.0±0.6
Horizontal beam centers (°)	±31	±31	±31	±31
Horizontal 3dB beamwidth (°)	39±3	37±2.2	35±1.5	33±1.3
Vertical 3dB beamwidth (°)	8.9±0.6	8.0±0.8	6.9±0.6	6.1±0.4
Front to back ratio (dB) Total power, ±30°	>27	>27	>28	>29
Cross polar ratio (dB) (at Boresight)	>18	>18	>18	>18
Electrical downtilt (°)	2-12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>18	>17	>16	>16
VSWR	≤1.5			
Isolation: intra-system (dB)	≥25			
Isolation: inter-system (dB)	≥30			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	200			
Lightning protection	Dc Ground			

Mechanical specifications

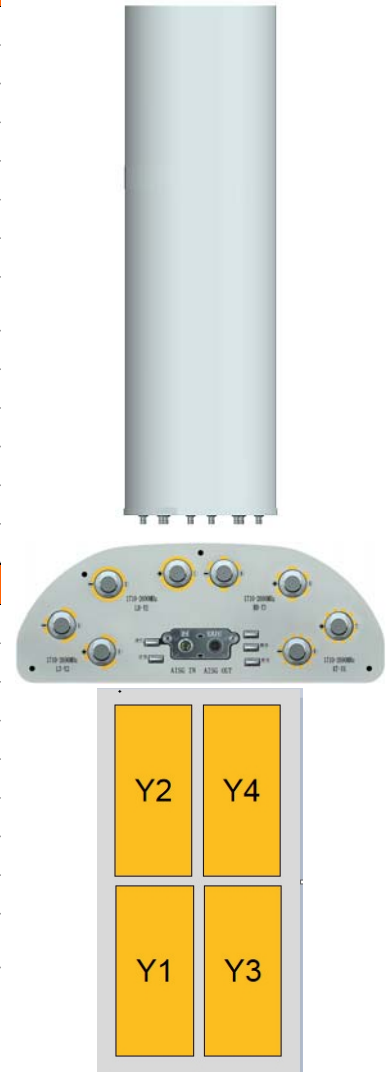
Connector	8×4.3-10-Female
Connector position	Bottom
Height × width × depth (mm)	2095×400×150
Packing size (mm)	2410×490×265
Antenna weight (kg)	28.7
Installation kit weight (kg)	5.4
Packing weight (kg)	38.7
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	1124/318/1535
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
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

Antenna pattern sample for reference


1710~2690MHz



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