

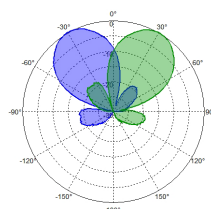
XXXXPol 1710~2690MHz×4 Twin-beam 33° 19.4dBi 2°~12° Integrated RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	1710~2690			
	1710~1880	1920~2200	2200~2490	2490~2690
Polarization	±45°			
Gain over all tilts (dBi)	18.4±0.3	18.8±0.3	19.3±0.3	19.4±0.3
Horizontal beam centers (°)	±28	±28	±28	±28
Horizontal 3dB beamwidth (°)	39±1.5	38±1	36±1	32±1
Vertical 3dB beamwidth (°)	9.0±0.4	8.1±0.3	7.2±0.3	6.5±0.3
Front to back ratio (dB)	>25	>28	>27	>27
Total power, ±30°				
Cross polar ratio (dB) (at Boresight)	>19	>19	>19	>19
Electrical downtilt (°)	2-12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>17	>17	>17	>17
VSWR	≤1.5			
Isolation between ports (dB)	≥25			
Inter-band Isolation/Inter-Cluster isolation (dB)	≥30			
Isolation beam to beam (dB)	≥25			
Efficiency	≥65%			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc			
Impedance (Ω)	50			
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)	2095×400×150
Packing size (mm)	2435×490×265
Antenna weight (kg)	26.5
Installation kit weight (kg)	5.4
Packing weight (kg)	37
Wind load (N, at 150km/h) Frontal/Lateral/Rear	917/249/974
Max. wind velocity (km/h)	216
Radiation material	Aluminum alloy and Low loss circuit PCB
Reflector material	Aluminum alloy
Radome material	Fiberglass, UV Resistant
Radome color	Gray or Color Customized
Mechanical tilt (°)	0~10
Operating temperature (°C)	-50~65
Working humidity	5% to 95%
Mounting hardware (mm)	Φ50~Φ115

Integrated RET Properties	
RET model	TRCU-TQ10P2V01
RET type	Integrated (Replaceable)
RET protocol	AISG 2.0/3GPP
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 (°C)	-50~65
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	Freq(MHz)	Conns	Beams	RET Unique ID
Y1	1710-2690	2	2	TY00000.....Y1
Y2	1710-2690	2		TY00000.....Y2
Y3	1710-2690	2		TY00000.....Y3
Y4	17102690	2		TY00000.....Y4


View Front Side of antenna

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;

-Safety and environmentally standard: ROHS2011/65/EU standards and EN60950-1, EN60950-22, REACH;

-Comply with CE certification;