

XPoI 2490~2690MHz 90° 16.5dBi 2°~10° Integrated and replaceable RCU (Remote Control Unit) Antenna

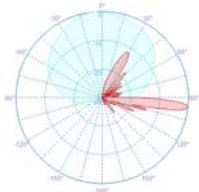
Electrical specifications-TDD			
General parameters	Frequency range(MHz)		2490~2690
	Polarization		±45°
	Electrical downtilt(°)		2-10
	Electrical downtilt tolerance(°)		±1
Calibration and electrical parameters	Coupling factor between calibration port and each antenna port(dB)		26±2
	Max.amplitude tolerance from calibration port to input ports(dB)		0.8
	Max.phase tolerance from calibration port to input ports(°)		7
	Ports VSWR		1.5
	Co-polarization isolation between ports(dB)		≥23
	Cross-polarization isolation between ports(dB)		≥25
Radiation parameters	Single column beam	Horizontal 3dB beam width(°)	90±9
		Gain(dBi)	16.2±0.7
		Vertical 3dB beam width(°)	4.9±0.4
		Cross polar ratio(0°)(dB)	15
		Cross polar ratio(±60°)(dB)	10
		Front to back ratio(dB)	26
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	16
	Broadcast beam	Horizontal 3dB beam width(°)	68±7
		Gain(dBi)	16.2±0.7
		Vertical 3dB beam width(°)	5±0.4
		Cross polar ratio(0°)(dB)	15
		Cross polar ratio(±60°)(dB)	10
		Front to back ratio(dB)	26
		Vertical sidelobe suppression for first sidelobe above main beam(dB)	16
	Service beam	0° direct beam gain(dBi)	21.5±0.7
		0° direct beam horizontal 3dB beam width(°)	27
		0° direct beam sidelobe suppression(dB)	11
		0° direct beam cross polar ratio(axial)(dB)	18
0° direct beam front to back ratio(dB)		28	

Mechanical specifications

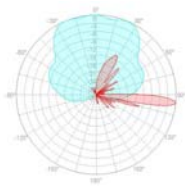
Connector	9×4.3-10-Female
Connector position	Bottom
Height × width × depth (mm)	1495×270×140
Packing size (mm)	1835×365×220
Antenna weight (kg)	16.4
Installation kit weight (kg)	5.3
Packing weight (kg)	24.5
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	337/112/594
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0-10
Operating temperature (°C)	-40~60

Integrated RET properties

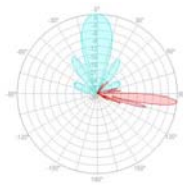
RET model	TRCU-TM10P1V01
RET type	Integrated (Replaceable)
RET protocol	AISG 2.0 / 3GPP
Power supply(V)	10-30 DC
Power consumption(W)	≤0.6 (Idle,12V),≤6 (in motion,12V)
Adjustment time (Full Range)	<4Mins
Adjustment cycles	>50,000
Temperature range (°C)	-40~65
Lightning protection	3KA(8/20μs) @ Pin5& 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


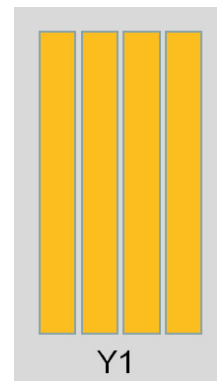
Single Column Beam



BCH Beam



0° Service Beam



Y1

Ant Array	RET Unique ID
Y1	TY00000.....Y1