PRISM TELECOM

P2032L6R011

XXXXXXXPol 694~960MHz×2/1710~2170MHz×2/2490~2690MHz×2/1427~2200MHz 65°/65°/65°/65° 16.8/16.8/17.3/17.5dBi 2°~12°/2°~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical Specifications				
Frequency range (MHz)	R1/R2 -694~960×2			
	694~803	790~862	824~894	880~960
Polarization	±45°			
Gain at mid tilt (dBi)	16.0	16.2	16.5	16.8
Gain over all tilts (dBi)	15.8±0.6	16.0±0.5	16.2±0.5	16.5±0.4
Horizontal 3dB beamwidth (°)	69±7	66±5	66±5	65±6
Vertical 3dB beamwidth (°)	9.2±0.5	8.5±0.5	8.2±0.7	7.6±0.5
Front to back ratio (dB) Total power, ±30°	>24	>25	>25	>26
Cross polar ratio (dB) (at Boresight)	>19	>19	>20	>20
Electrical downtilt (°)	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>17	>17	>17
VSWR	<1.5			
Isolation: intra-system (dB)	＞25			
Isolation: inter-system (dB)	＞25(R1//R2) ＞28(Other)			
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc			
Impedance (Ω)	50			
Max. power per input (W) @50°C	500			
Lightning protection	Dc Ground			

Electrical Specifications						
Frequency Range (MHz)	B1/B3-1710~2170×2		Y1/Y2-2490~2690×2	B2-1427~2200		
	1710~1990	1920~2170	2490~2690	1427~1518	1710~1990	1920~2200
Polarization	±45°					
Gain at mid tilt (dBi)	16.6	16.8	17.3	16.2	17.3	17.5
Gain over all tilts (dBi)	16.4±0.5	16.6±0.5	17.1±0.5	16.0±0.3	17.1±0.5	17.2±0.5
Horizontal 3dB beamwidth (°)	67±5	66±5	58±4	72±7	61±4	60±6
Vertical 3dB beamwidth (°)	6.7±0.6	6.2±0.5	4.9±0.5	8.4±0.4	6.6±0.7	6.1±0.6
Front to back ratio (dB) Total power, ±30°	>26	>26	>25	>28	>28	>28
Cross polar ratio (dB) (at Boresight)	>20	>20	>18	>19	>19	>19
Electrical downtilt (°)	2~12		2~12	2~12		
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>15	>15	>17	>16	>16
VSWR	<1.5					
Isolation: intra-system (dB)	＞25					
Isolation: inter-system (dB)	＞28					
Intermodulation IM3 (2×43dBm carrier)	≤-150 dBc					
Impedance (Ω)	50					
Max. power per input (W) @50°C	200		200	250		
Lightning protection	Dc Ground					

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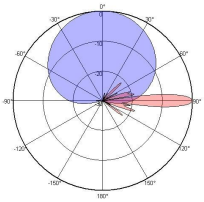
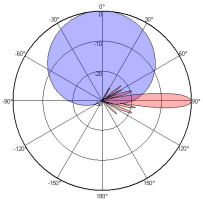
Mechanical Specifications	
Connector	14×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2680×469×198
Packing size (mm)	3120×585×350
Antenna weight (kg)	50.8
Installation kit weight (kg)	8.8
Packing weight (kg)	66.5
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	1163/352/1207
Max. wind velocity (km/h)	216
Radome material	Fiberglass
Radome color	Gray
Mechanical tilt (°)	0-8
Operating temperature (℃)	-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 (℃)	-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

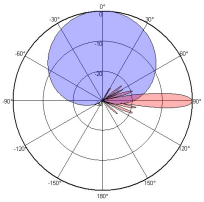
Antenna Pattern Sample For Reference



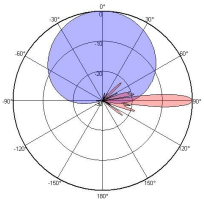
694~960MHz



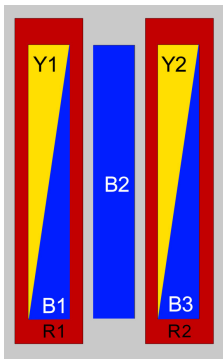
1427~2200MHz



1710~2170MHz



2490~2690MHz



Ant Array	RET Unique ID
R1	TY00000……R1
R2	TY00000……R2
B1	TY00000……B1
B2	TY00000……B2
B3	TY00000……B3
Y1	TY00000……Y1
Y2	TY00000……Y2