PRISM TELECOM

P2002M6R021

XXXXPol 698~862MHz/880~960MHz/1710~2690MHz/1427~2690MHz 65°/65°/65°/65° 15.5/16/18/18dBi 2°~12°/2°~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna,with Combiner Integrated

Electrical Specifications							
Frequency range (MHz)	R1-698~862		R2-880~960	Y1-1710~2690			
	694~803	790~862	880~960	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°						
Gain at mid tilt (dBi)	15.3	15.6	15.9	17.1	17.5	17.8	18
Gain over all tilts (dBi)	15.1±0.3	15.4±0.4	15.7±0.4	16.9±0.6	17.3±0.5	17.6±0.5	17.8±0.5
Horizontal 3dB beamwidth (°)	68±3	65±3	62±3	67±5	60±5	60±6	66±5
Vertical 3dB beamwidth (°)	11.3±0.8	10.4±0.6	9.6±0.6	7.3±0.5	6.4±0.5	5.5±0.4	5±0.4
Front to back ratio (dB) Total power, ±30°	>25	>25	>26	>26	>25	>25	>25
Cross polar ratio (dB) (at Boresight)	>17	>18	>16	>19	>19	>19	>19
Electrical downtilt (°)	2~12		2~12	2~12			
Sidelobe suppression (dB) (First sidelobe above main beam)	>15	>17	>16	>17	>17	>17	>16
VSWR	<1.5						
Isolation: intra-system (dB)	≥25		≥25	≥25			
Isolation: inter-system (dB)	≥28		≥28	≥28			
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc						
Impedance (Ω)	50						
Max. power per input (W) @50°C	400		400	200			
Lightning protection	Dc Ground						

Electrical Specifications					
Frequency Range (MHz)	Y2 -1427-2690				
	1427~1518	1710~1990	1920~2200	2200~2490	2490~2690
Polarization	±45°				
Gain at mid tilt (dBi)	15.6	17.0	17.6	18.0	17.8
Gain over all tilts (dBi)	15.4±0.5	16.8±0.5	17.4±0.5	17.8±0.5	17.6±0.5
Horizontal 3dB beamwidth (°)	69±6	65±5	62±4	57±5	59±5
Vertical 3dB beamwidth (°)	8.8±0.7	7.3±0.6	6.2±0.5	5.7±0.5	5.1±0.5
Front to back ratio (dB) Total power, ±30°	>24	>26	>26	>26	>25
Cross polar ratio (dB) (at Boresight)	>17	>18	>17	>16	>16
Electrical downtilt (°)	2~12				
Sidelobe suppression (dB) (First sidelobe above main beam)	>16	>18	>18	>18	>17
VSWR	<1.5				
Isolation: intra-system (dB)	≥25				
Isolation: inter-system (dB)	≥28				
Intermodulation IM3 (2×43dBm carrier)	≤-153 dBc				
Impedance (Ω)	50				
Max. power per input (W) @50°C	200				
Lightning protection	Dc Ground				

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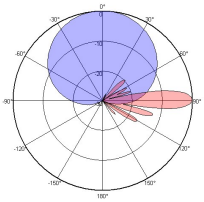
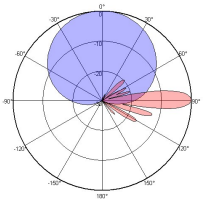
Mechanical Specifications	
Connector	8×4.3-10 Female
Connector position	Bottom
Height × width × depth (mm)	2080×355×165
Packing size (mm)	2415×460×260
Antenna weight (kg)	27
Installation kit weight (kg)	5.4
Packing weight (kg)	37.5
Wind load (N,at 150km/h) Frontal/Lateral/Maximum	970/200/1230
Max. wind 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-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

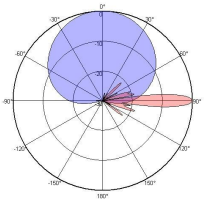
Antenna Pattern Sample For Reference



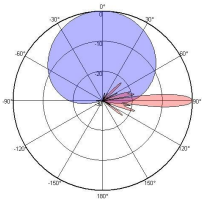
698~862 MHz



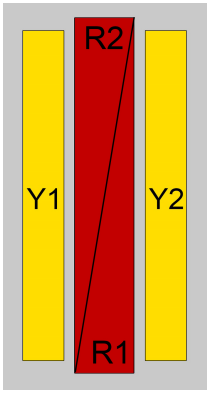
880~960 MHz



1710~2690 MHz



1427~2690 MHz



Ant Array	RET Unique ID
R1	TY00000……R1
R2	TY00000……R2
Y1	TY00000……Y1
Y2	TY00000……Y2