

<b>8-Port Antenna</b>	<b>R1</b>	<b>R2</b>	<b>Y1</b>	<b>Y2</b>
<b>Frequency Range</b>	698-960	698-960	1710-2690	1710-2690
<b>HBPW</b>	65	65	65	65
<b>Gain</b>	17	17	18	18
<b>Tilt</b>	2-12	2-12	2-12	2-12

Model Number		CP8-2L2M-65-17/18RT-1A		
<b>Electrical specifications</b>				
		<b>R1, R2</b>		
Frequency Range(MHz)		698-960		
		698-824	806-896	880-960
Gain(dBi)	at mid Tilt	16.0	16.3	16.6
	over all Tilts	15.8±0.6	16.1±0.6	16.4±0.6
Horizontal Pattern:				
Azimuth Beamwidth(o)		65±6.5	62±5.5	60±6.5
Front to back Ratio Co-polar, ±30°(dB)		>25	>25	>25
Cross Polar Discrimination at Boresight(dB)		>17	>17	>18
Vertical Pattern:				
Elevation Beamwidth(o)		8.6±0.7	7.8±0.7	7.2±0.8
Electrical Downtilt(o)		2-12, continuously adjustable		
First Upper Side Lobe Suppression (dB)		>15	>15	>15
Cross-Polar Isolation (dB)		> 26		
Port to Port Isolation (dB)		> 26(R1//R2), > 28(R1//Y1,Y2)		
Max. Average Input Power per Port (W)		250		

Preliminary values based on NGMN-P-BASTA V12.0

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		CP8-2L2M-65-17/18RT-1A	Issue: 1.5	Dated: 2-26-2024

Model Number		CP8-2L2M-65-17/18RT-1A				
		<b>Y1, Y2</b>				
Frequency Range(MHz)		1710-2690				
		1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain(dBi)	at mid Tilt	16.8	17.0	17.4	17.6	17.8
	over all Tilts	16.6±0.6	16.8±0.5	17.2±0.5	17.4±0.4	17.6±0.5
<b>Horizontal Pattern:</b>						
Azimuth Beamwidth (°)		66±6.5	64±6.5	61±6.5	60±5.5	58±6.0
Front to back Ratio Co-polar, ±30° (dB)		≥25	≥25	>25	≥25	≥25
Cross Polar Discrimination at Boresight (dB)		>17	>17	>18	>19	>19
<b>Vertical Pattern:</b>						
Vertical-3dB Beamwidth (°)		6.8±0.6	6.4±0.6	6.0±0.6	5.2±0.5	4.8±0.6
Electrical Downtilt (°)		2-12, continuously adjustable				
First Upper Side Lobe Suppression (dB)		>15	>15	>15	>15	>15
Cross-Polar Isolation (dB)		> 26				
Port to Port Isolation (dB)		> 28				
Max. Average Input Power per Port (W)		200				

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Electrical specifications, all systems:	
Polarization	+45° /-45°
Impedance (Ω)	50
VSWR	<1.5
Return Loss (dB)	> 14
PIM3 (2x43 dBm carrier) (dBc)	<-150
Lightning Protection	DC Ground

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Model Number	CP8-2L2M-65-17/18RT-1A
<b>Mechanical Specifications</b>	
Connector Type	4.3/10(F) x8
Connector position	Bottom
Electrical Tilt Control	Integrated RET, Each Band Individually Adjustable
Mechanical Tilt Range	0-10
Radome Material	Fiberglass
Antenna Weight(kg)	32.5/38 (clamps incl.)
Bracket Diameter(mm)	50-125
Maximum Wind Speed(km/h)	200
Wind Load frontal [N] at 150 Km/h	1080
Wind Load rear side [N] at 150 Km/h	1210
Wind Load lateral [N] at 150 Km/h	560
Operating Temperature (°C)	-40 ~+60
Antenna Dimensions (H x W x D) (mm)	2497x469x205
Packing Size (H x W x D) (mm)	2737x544x280

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<b>Integrated RET Specifications</b>	
Protocols	Compliant With AISGV2.0 And 3GPP
Supply Voltage, VDC	10–30DC
Power Consumption	<2W (standby); < 10W (motor actived)
Safety Standard	Compliant to EN 60950/UL 60950/ RoHs (Restriction of Hazardous Substances), CE
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, Line to Ground 8/20 us @ 6kA ≥±5 Repetitions Line to line , 8/20 us @ 3kA ≥±5 Repetitions
Connectors	2 x 8 Pins Connector According To IEC60130-9 AND AISG  1 x Daisy Chain In : Male  1 x Daisy Chain Out : Female

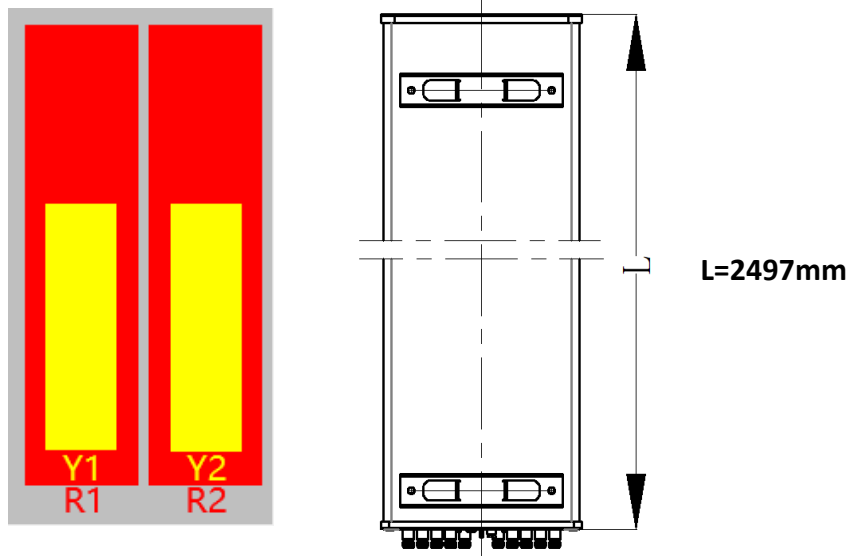
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Pin3:RS485B; Pin5:RS485A; Pin6:10~30V; Pin7: DC return

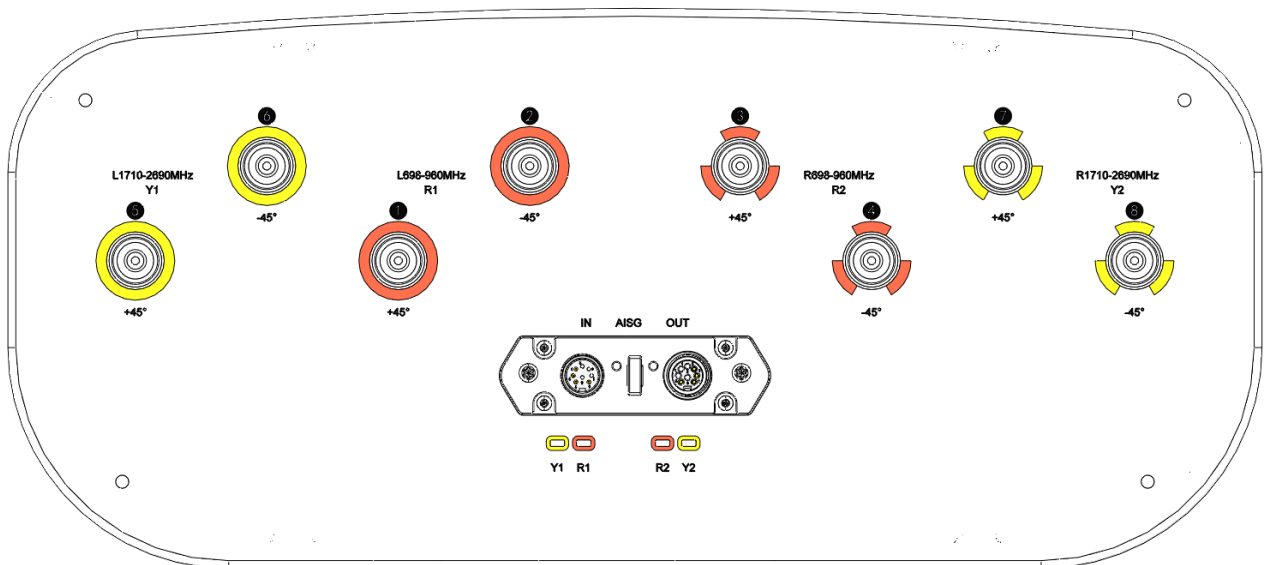
Female connector: 4 PINs ,Male connector: 4 PINs

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### Arrays of the antenna



### Ports of the antenna



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