

8-Port Antenna	R1	R2	Y1	Y2
Frequency Range	698-960	698-960	1710-2690	1710-2690
HBPW	65	65	65	65
Gain	16	16	18	18
Tilt	2-12	2-12	2-12	2-12

Model Number	CP8-2L2M-65-16/18RT-1A			
Electrical specifications				
	R1, R2			
Frequency Range(MHz)	698-960			
	698-806	790-894	880-960	
Gain(dBi)	at mid Tilt	14.9	15.3	15.6
	over all Tilts	14.7±0.5	15.1±0.5	15.4±0.4
Horizontal Pattern:				
Azimuth Beamwidth(°)	66±6.5	61±5.5	58±6.5	
Front to back Ratio Co-polar, ±30°(dB)	>25	>25	>25	
Cross Polar Discrimination at Boresight(dB)	>18	>18	>18	
Vertical Pattern:				
Vertical-3dB Beamwidth (°)	11.0±0.9	9.8±0.6	9.3±0.6	
Electrical Downtilt (°)	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,R2//Y1,Y2,Y3)			
Max. Average Input Power per Port (W)	250			

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

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Product Specification Sheet		CP8-2L2M-65-16/18RT-1A	Issue 1.5	Dated: 2-26-2024

Model Number		CP8-2L2M-65-16/18RT-1A				
		Y1, Y2				
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
Horizontal Pattern:						
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
Vertical Pattern:						
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)	<-153
Lightning Protection	DC Ground

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Model Number	CP8-2L2M-65-16/18RT-1A
Mechanical Specifications	
Connector Type	4.3/10(F) x8
Connector position	Bottom
Electrical Tilt Control	Integrated RET, Each Band Individually Adjustable
Mechanical Tilt Range	0-12
Radome Material	Fiberglass
Antenna Weight(kg)	26/31.5 (clamps incl.)
Bracket Diameter(mm)	50-125
Maximum Wind Speed(km/h)	200
Wind Load frontal [N] at 150 Km/h	865
Wind Load rear side [N] at 150 Km/h	970
Wind Load lateral [N] at 150 Km/h	470
Operating Temperature (°C)	-40 ~+60
Antenna Dimensions (H x W x D) (mm)	1997x469x205
Packing Size (H x W x D) (mm)	2237x544x280

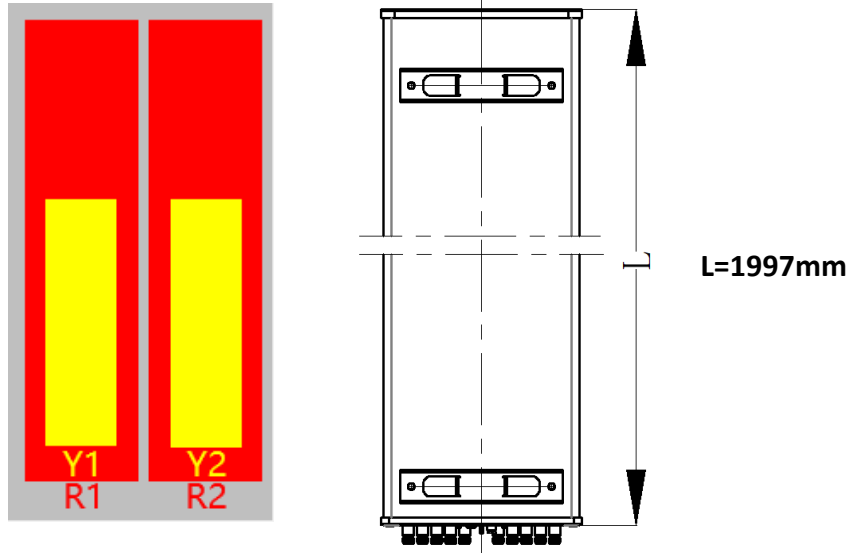
Preliminary values based on NGMN-P-BASTA V12.0

Integrated RET Specifications	
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 Pin3:RS485B; Pin5:RS485A; Pin6:10~30V; Pin7: DC return Female connector: 4 PINs ,Male connector: 4 PINs

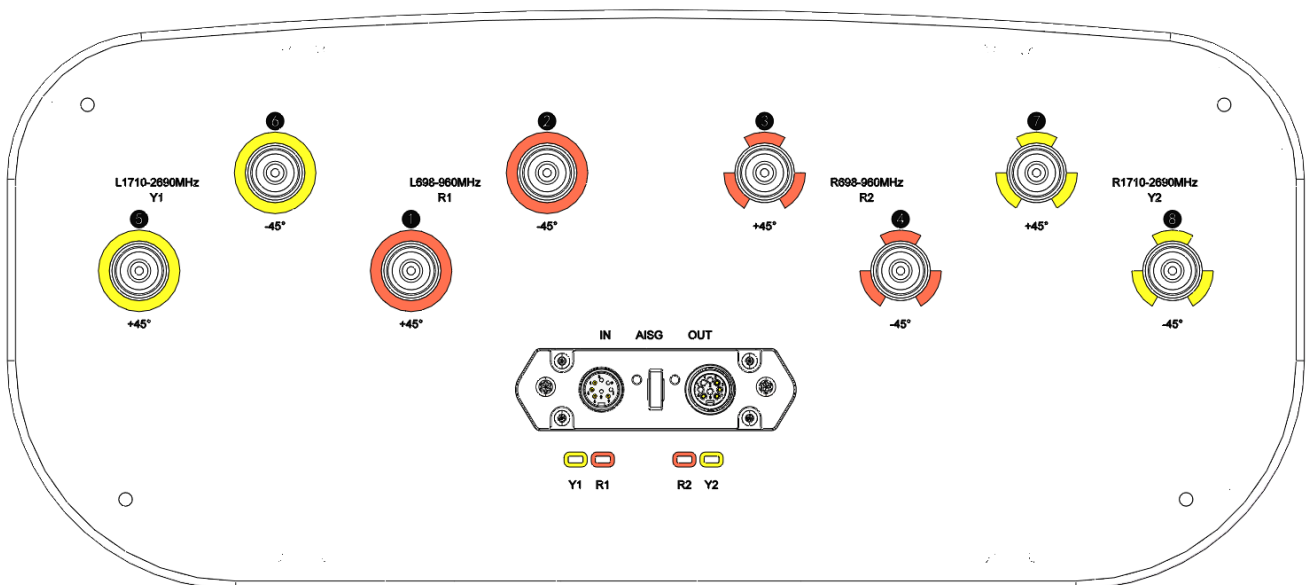
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Arrays of the antenna



Ports of the antenna



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