

12-Port Antenna	R1	R2	Y1	Y2	Y3	Y4
Frequency Range	698-960	698-960	1710-2690	1710-2690	1710-2690	1710-2690
HBPW	65	65	65	65	65	65
Gain	14.5	14.5	15.5	15	15.5	15
Tilt	2-12	2-12	2-12	2-12	2-12	2-12

Model Number	CP12-2L4M-65-15RT-1B					
Electrical specifications						
			R1, R2			
Frequency Range(MHz)			698-960			
			698-806	790-894	880-960	
Gain(dBi)	at mid Tilt		13.9	14.3	14.6	
	over all Tilts		13.7 ± 0.5	14.1 ± 0.5	14.4 ± 0.5	
Horizontal Pattern:						
Azimuth Beamwidth(°)			64±6.5	60±5.5	56±6.5	
Front to back Ratio Co-pol, ±30°(dB)			>25	>25	>25	
Cross Polar Discrimination at Boresight(dB)			>17	>18	>17	
Vertical Pattern:						
Vertical-3dB Beamwidth (°)			14.9±1.1	13.4±0.9	12.3±0.9	
Electrical Downtilt (°)			2-12, continuously adjustable			
First Upper Side Lobe Suppression (dB)			>15	>15	>15	
Cross-Polar Isolation (dB)			> 25			
Port to Port Isolation (dB)			> 25(R1//R2), > 28(R1//Y1, Y2, Y3, Y4)			
Max. Average Input Power per Port (W)			250			

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

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Product Specification Sheet		CP12-2L4M-65-15RT-1B	Issue 1.5	Dated: 2-26-2024

Model Number		CP12-2L4M-65-15RT-1B				
		Y1, Y3				
Frequency Range(MHz)		1710-2690				
		1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain(dBi)	at mid Tilt	14.7	15.0	15.2	15.6	15.6
	over all Tilts	14.5 ±0.6	14.8 ±0.5	15.0 ±0.6	15.4 ±0.6	15.4 ±0.6
Horizontal Pattern:						
Azimuth Beamwidth (°)		68±6.5	65±6.0	62±6.5	60±6.0	58±6.5
Front to back Ratio Co-pol, ±30°(dB)		≥25	≥25	>25	≥26	≥26
Cross Polar Discrimination at Boresight (dB)		>16	>16	>17	>18	>18
Vertical Pattern:						
Vertical-3dB Beamwidth (°)		12.5±0.8	11.9±0.8	11.3±0.7	10.0±0.6	9.3±0.6
Electrical Downtilt (°)		2-12, continuously adjustable				
First Upper Side Lobe Suppression (dB)		>15	>15	>15	>15	>15
Cross-Polar Isolation (dB)		> 25				
Port to Port Isolation (dB)		> 28				
Max. Average Input Power per Port (W)		200				

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

Model Number		CP12-2L4M-65-15RT-1B				
		Y2, Y4				
Frequency Range(MHz)		1710-2690				
		1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain(dBi)	at mid Tilt	14.4	14.7	14.9	15.3	15.3
	over all Tilts	14.2 ±0.6	14.5 ±0.5	14.7 ±0.6	15.1 ±0.6	15.1 ±0.6
Horizontal Pattern:						
Azimuth Beamwidth (°)		68±6.5	65±6.0	62±6.5	60±6.0	58±6.5
Front to back Ratio Co-pol, ±30°(dB)		≥25	≥25	>25	≥26	≥26
Cross Polar Discriminationat Boresight (dB)		>15	>16	>17	>18	>16
Vertical Pattern:						
Vertical-3dB Beamwidth (°)		12.5±0.8	11.9±0.8	11.3±0.7	10.0±0.6	9.3±0.6
Electrical Downtilt (°)		2-12, continuously adjustable				
First Upper Side Lobe Suppression (dB)		>15	>15	>15	>15	>15
Cross-Polar Isolation (dB)		> 25				
Port to Port Isolation (dB)		> 28				

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Product Specification Sheet		CP12-2L4M-65-15RT-1B	Issue 1.5	Dated: 2-26-2024

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

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



Model Number	CP12-2L4M-65-15RT-1B
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Mechanical Specifications

Connector Type	4.3/10(F) x 12
Connector position	Bottom
Electrical Tilt Control	Integrated RET, Each Band Individually Adjustable
Mechanical Tilt Range (°)	0-16
Radome Material	Fiberglass
Antenna Weight(kg)	22/26 (clamps incl.)
Bracket Diameter(mm)	50-125
Maximum Wind Speed(km/h)	200
Wind Load frontal [N] at 150 Km/h	445
Wind Load rearside [N] at 150 Km/h	420
Wind Load lateral [N] at 150 Km/h	185
Operating Temperature (°C)	-40 ~+60
Antenna Dimensions (H x W x D) (mm)	1497x469x205
Packing Size (H x W x D) (mm)	1717x544x280

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

Integrated RET Specifications

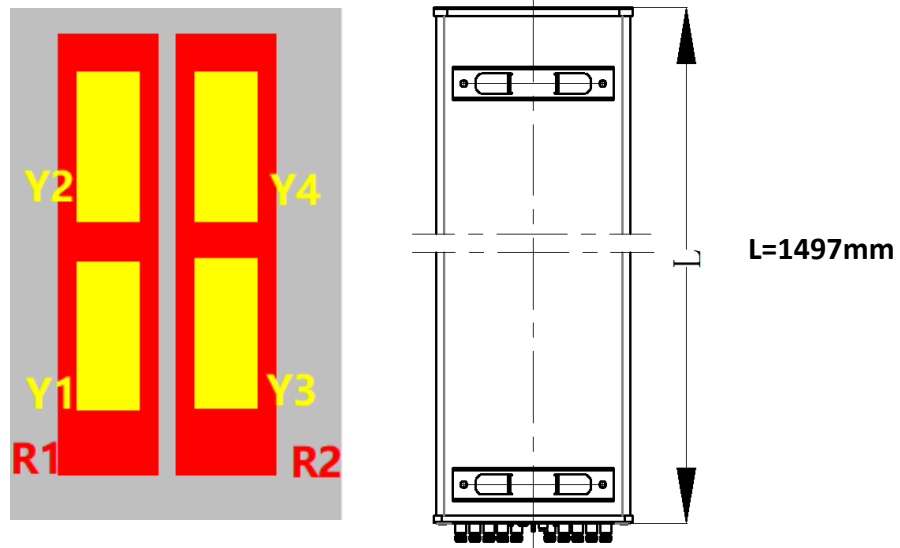
Protocols	Compliant With AISGV2.0 And 3GPP
Supply Voltage, VDC	10–30DC
Power Consumption	<2W (standby); < 10W (motor actived)
Safety Standard	Compliant to EN 60950/UL 60950/ RoHs (Restriction of Hazardous Substances), CE
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile,

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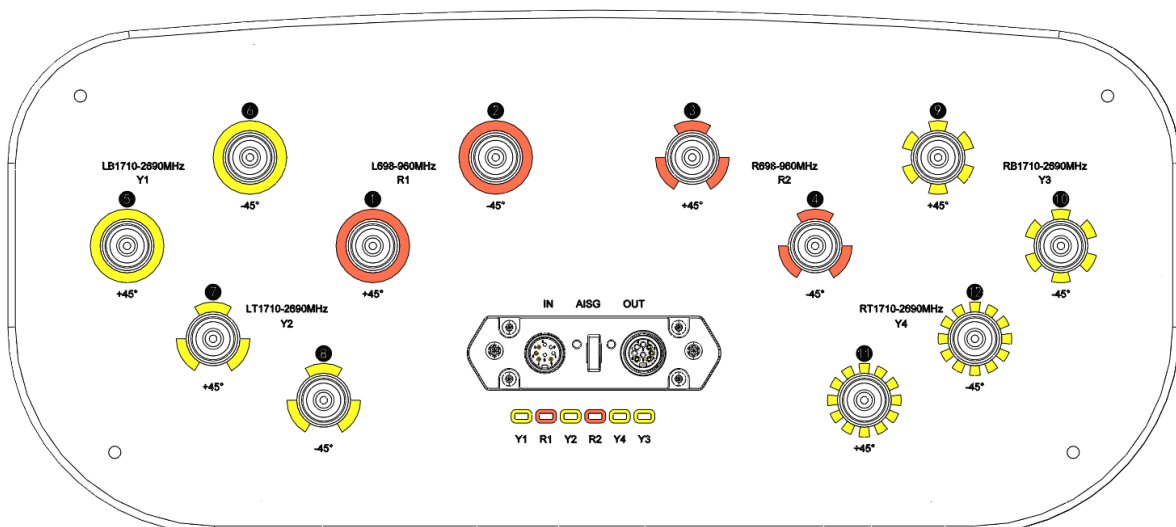
	<p>Line to Ground 8/20 us @ 8kA $\geq \pm 5$ Repetitions</p> <p>Line to line , 8/20 us @ 3kA $\geq \pm 5$ Repetitions</p>
Connectors	<p>2 x 8 Pins Connector According To IEC60130-9 AND AISG</p> <p>1 x Daisy Chain In : Male</p> <p>1 x Daisy Chain Out : Female</p> <p>Pin3:RS485B; Pin5:RS485A; Pin6:10~30V; Pin7: DC return</p> <p>Female connector: 4 PINs ,Male connector: 4 PINs</p>

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Arrays of the antenna



Ports of the antenna





Antennas
Cellular Panel Antennas

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