

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	15.5	15.5	16.5	16	16.5	16
Tilt	2-12	2-12	2-12	2-12	2-12	2-12

Model Number	CP12-2L4M-65-16RT-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 ± 0.5		
Horizontal Pattern:						
Azimuth Beamwidth(°)		66±6.5	61±5.5	58±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 (°)		11.0±1.1	9.8±0.9	9.3±0.9		
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//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-65-16RT-1A	Issue 1.5	Dated: 2-26-2024

Model Number		CP12-2L4M-65-16RT-1A				
		Y1, Y3				
Frequency Range(MHz)		1710-2690				
		1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain(dBi)	at mid Tilt	15.7	16.0	16.2	16.6	16.6
	over all Tilts	15.5 ±0.6	15.8 ±0.5	16.0 ±0.6	16.4 ±0.6	16.4 ±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 (°)		9.5±0.8	8.9±0.8	8.4±0.7	7.4±0.6	6.6±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				

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

Model Number		CP12-2L4M-65-16RT-1A				
		Y2, Y4				
Frequency Range(MHz)		1710-2690				
		1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain(dBi)	at mid Tilt	15.4	15.7	15.9	16.3	16.3
	over all Tilts	15.2 ±0.6	15.5 ±0.5	15.7 ±0.6	16.1 ±0.6	16.1 ±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 Discrimination at Boresight (dB)		>15	>16	>17	>18	>16
Vertical Pattern:						
Vertical-3dB Beamwidth (°)		9.5±0.8	8.9±0.8	8.4±0.7	7.4±0.6	6.6±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				

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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-65-16RT-1A
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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 (°)	0-12
Radome Material	Fiberglass
Antenna Weight(kg)	28/32.5 (clamps incl.)
Bracket Diameter(mm)	50-125
Maximum Wind Speed(km/h)	200
Wind Load frontal [N] at 150 Km/h	865
Wind Load rearside [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

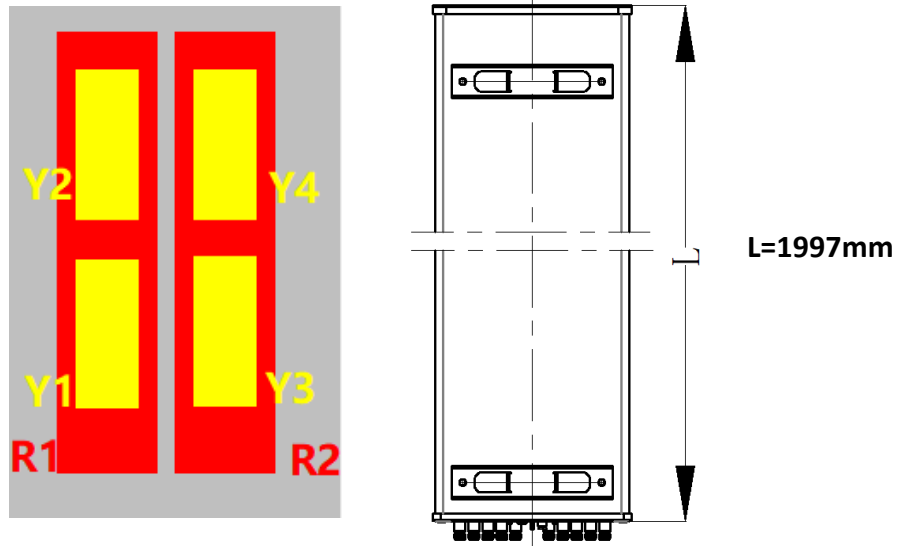
Protocols	Compliant With AISGV2.0 And 3GPP
Supply Voltage, VDC	10–30DC
Power Consumption	<2W (standby); < 10W (motor actived)
Safety Standard	Compliant to EN 60950/UL 60950/ RoHs (Restriction of Hazardous Substances), CE
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile,

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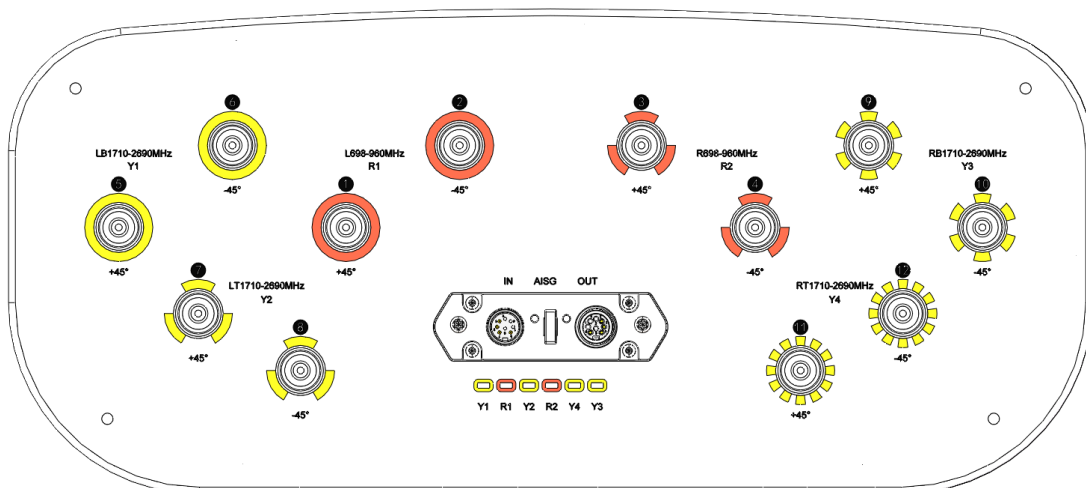
	Line to Ground 8/20 us @ 8kA $\geq \pm 5$ Repetitions Line to line , 8/20 us @ 3kA $\geq \pm 5$ Repetitions
Connectors	2 x 8 Pins Connector According To IEC60130-9 AND AISG 1 x Daisy Chain In : Male 1 x Daisy Chain Out : Female Pin3:RS485B; Pin5:RS485A; Pin6:10~30V; Pin7: DC return Female connector: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

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Arrays of the antenna



Ports of the antenna



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Antennas
Cellular Panel Antennas

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