



12-Port Antenna	R1	R2	Y1, Y2	Y3, Y4
Frequency Range	698-960	698-960	1710-2690	1710-2690
HBPW	65	65	33	33
Gain	15	15	15	15
Tilt	2-12	2-12	2-12	2-12

Model Number	CP12-2L4M-65/33-15RT-1A
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Electrical specifications

		R1, R2		
Frequency Range(MHz)		698-960		
		698-806	790-894	880-960
Gain(dBi)	at mid Tilt	13.8	14.4	14.6
	over all Tilts	13.7±0.6	14.3±0.6	14.5±0.6
Horizontal Pattern:				
Azimuth Beam width(°)		67±6	65±6	60±6
Front-to-Back Ratio Co-pol(dB)		>23	>23	>23
Cross Polar Discrimination at Boresight(dB)		>15	>15	>15
Vertical Pattern:				
Vertical-3dB Beam width (°)		16.2±1.5	14.6±1.5	13.5±1.5
Electrical Down-tilt (°)		2-12, continuously adjustable		
First Upper Side Lobe Suppression (dB)		>15	>15	>15
Intra-Band Isolation (dB)		> 25		
Inter-Band Isolation (dB)		>25		
Max. Average Input Power per Port (W)		250(at 50°C ambient temperature)		

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

Model Number		CP12-2L4M-65/33-15RT-1A				
		Y1, Y2, Y3, Y4				
Frequency Range(MHz)		1710-2690				
		1710-1880	1850-1990	1920-2170	2300-2500	2500-2690
Gain(dBi)	at mid Tilt	14.5	14.9	15.5	16.0	15.9
	over all Tilts	14.5±0.6	14.9±0.6	15.5±0.6	16.0±0.6	15.9±0.7
Horizontal Pattern:						
Azimuth Beam width (°)		35±3	33±3	31±3	27±3	25±3
Front-to-Back Ratio Co-pol, ± 30° (dB)		>25	>25	>25	>25	>25
Vertical Pattern:						
Vertical-3dB Beam width (°)		19.2±1.5	18.0±1.5	17.0±1.5	14.7±1.5	13.7±1.5
Electrical Down-tilt (°)		2-12, continuously adjustable				
First Upper Side Lobe Suppression (dB)		>15	>15	>15	>15	>15
Intra-Band Isolation (dB)		Same beam: ≥ 25				
Beam to beam Isolation (dB)		≥15				
Inter-Band Isolation (dB)		≥ 25				
Max. Average Input Power per Port (W)		200(at 50°C ambient temperature)				
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				

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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Product Specification Sheet		CP12-2L4M-65/33-15RT-1A	Issue 1.5	Dated: 2-26-2024

Model Number	CP12-2L4M-65/33-15RT-1A
Mechanical Specifications	
Connector Type	4.3/10(F) x12
Connector position	Bottom
Electrical Tilt Control	Integrated RET, Each Band Individually
Mechanical Tilt Range	0-16
Radome Material	Fiberglass
Antenna Weight(kg)	26/30 (clamps incl.)
Bracket Diameter(mm)	50-125
Maximum Wind Speed(km/h)	200
Wind Load frontal [N] at 150 Km/h	475
Wind Load rear side [N] at 150 Km/h	450
Wind Load lateral [N] at 150 Km/h	200
Operating Temperature (°C)	-40 ~+60
Antenna Dimensions (H x W x D) (mm)	1598x498x198
Packing Size (H x W x D) (mm)	1818x573x273

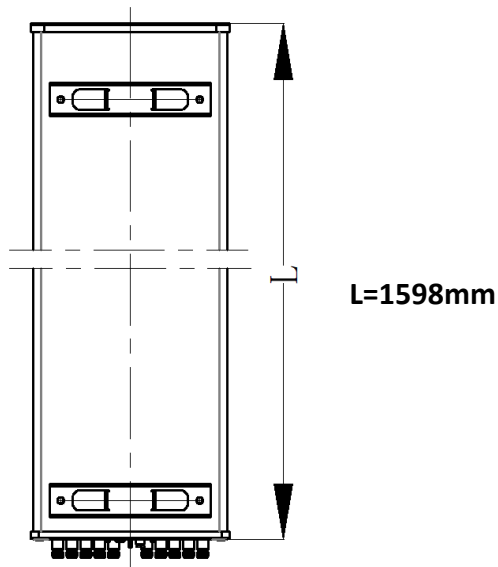
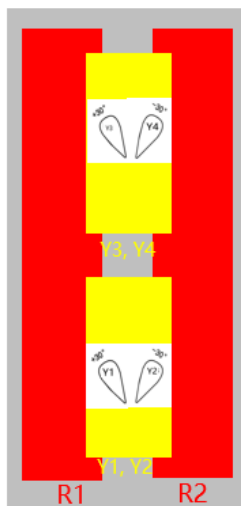
Preliminary values based on NGMN-P-BASTA V10.0

Integrated RET Specifications	
Protocols	Compliant With AISGV2.0 And 3GPP
Supply Voltage, VDC	10–30DC
Power Consumption	<2W (standby); < 10W (motor activated)
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

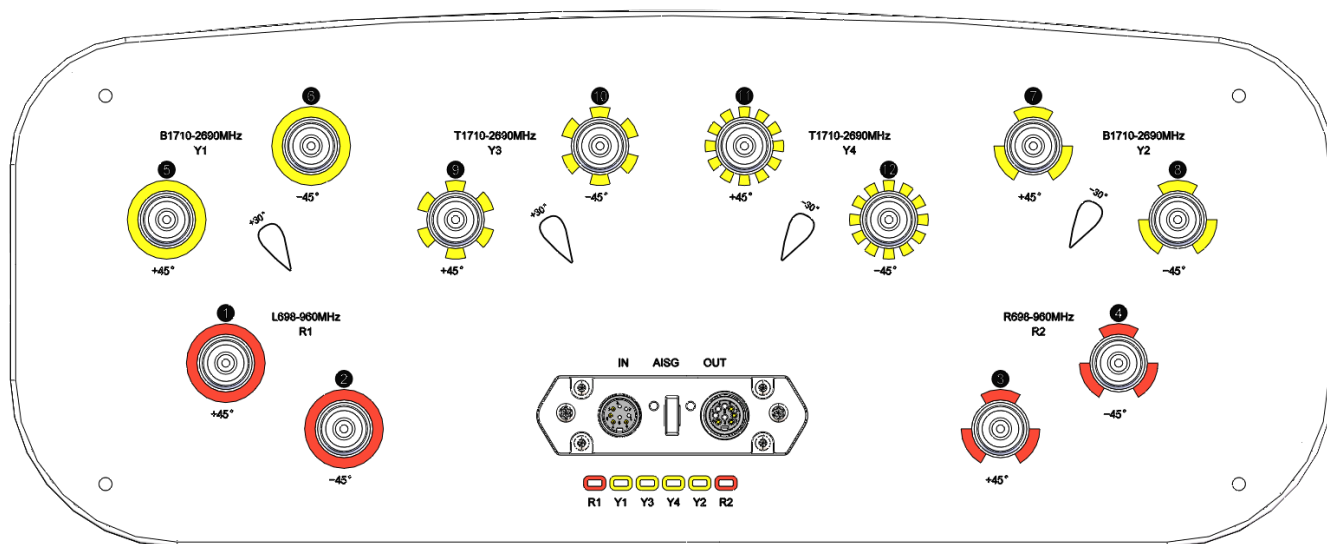
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Arrays of the antenna



Ports of the antenna



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