

6-Port Antenna	R1	Y1	Y2
Frequency Range	698-960	1710-2690	1710-2690
HBPW	65	65	65
Gain	17	18	18
Tilt	2-12	2-12	2-12

Model Number	CP6-1L2M-65-17/18RT-1A
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Electrical specifications

		R1		
Frequency Range(MHz)		698-960		
		698-806	790-894	880-960
Gain(dBi)	at mid Tilt	16.2	16.6	17.0
	over all Tilts	16.0±0.5	16.4±0.6	16.8±0.6
Horizontal Pattern:				
Azimuth Beamwidth(°)		68±4.5	65±4.1	63±4.5
Front to back Ratio Co-polar, ±30°(dB)		≥25	≥25	≥25
Cross Polar Discrimination at Boresight(dB)		≥17	≥18	≥17
Vertical Pattern:				
Vertical-3dB Beamwidth (°)		8.6±1.1	7.8±0.9	7.2±0.9
Electrical Downtilt (°)		2-12, continuously adjustable		
First Upper Side Lobe Suppression (dB)		≥15	≥15	≥15
Cross-Polar Isolation (dB)		> 28		
Port to Port Isolation (dB)		> 28		
Max. Average Input Power per Port (W)		250(at 50°C ambient temperature)		

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



Model Number		CP6-1L2M-65-17/18RT-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±0.6	17.4±0.6	17.6±0.6
Horizontal Pattern:						
Azimuth Beamwidth (°)		66±6.1	64±6.1	60±6.5	60±6.0	58±6.5
Front to back Ratio Co-polar, ±30° (dB)		>25	>25	>25	>25	>25
Cross Polar Discrimination at Boresight (dB)		>16	>16	>16	>17	>17
Vertical Pattern:						
Vertical-3dB Beamwidth (°)		6.8±0.6	6.4±0.5	6.0±0.5	5.2±0.4	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)		> 28				
Port to Port Isolation (dB)		> 28				
Max. Average Input Power per Port (W)		250(at 50°C ambient temperature)				

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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

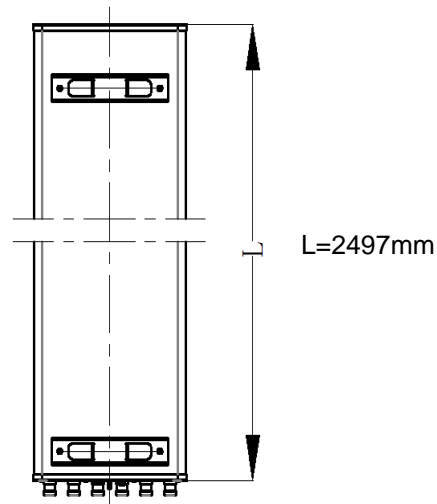
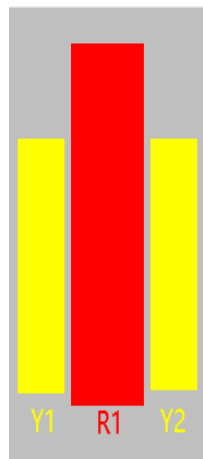
Preliminary values based on NGMN-P-BASTA V12.0

Model Number	CP6-1L2M-65-17/18RT-1A
Mechanical Specifications	
Connector Type	4.3/10(F) x 6
Connector position	Bottom
Electrical Tilt Control	Integrated RET, Each Band Individually Adjustable
Mechanical Tilt Range	0-10
Radome Material	Fiberglass
Antenna Weight(kg)	21/26.5 (clamps incl.)
Bracket Diameter(mm)	50-125
Maximum Wind Speed(km/h)	200
Wind Load frontal [N] at 150 Km/h	510
Wind Load rear side [N] at 150 Km/h	540
Wind Load lateral [N] at 150 Km/h	530
Operating Temperature (°C)	-40 ~+60
Antenna Dimensions (H x W x D) (mm)	2497x350x178
Packing Size (H x W x D) (mm)	2737x425x253

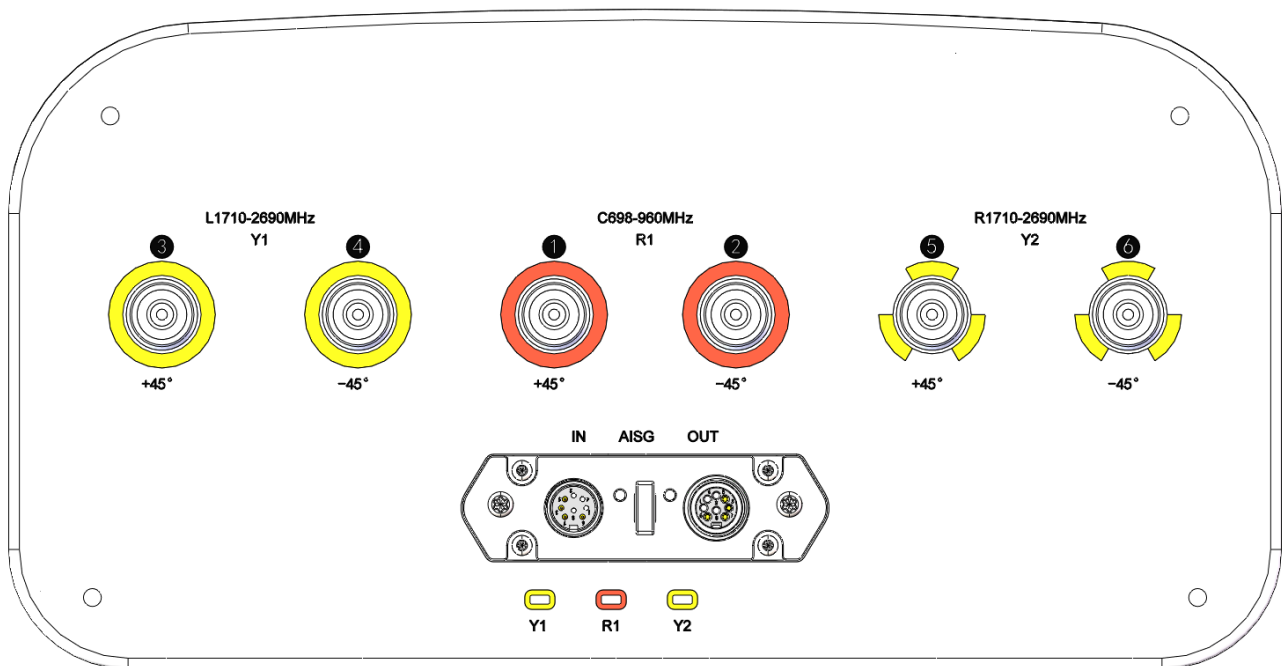
Integrated RET Specifications	
Protocols	Compliant With AISGV2.0 And 3GPP
Supply Voltage, VDC	10-30DC
Power Consumption	<2W (standby); < 10W (motor actived)
Safety Standard	Compliant to EN 60950/UL 60950/ RoHs (Restriction of Hazardous Substances), CE
Lightning Protection Rating	IEC 61000-4-5 Current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

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

Arrays of the antenna



Ports of the antenna



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