

Product Specifications



4-Port Antenna	Y1	Y2
Frequency Range	1710-2690	1710-2690
HBPW	65	65
Gain	18	18
Tilt	2-12	2-12

Type No.		BA-4-H1H1-65-1818-ET-IN-43R			
		Y1, Y2			
Frequency Range(MHz)		1710-2690			
		1710-1990	1920-2200	2300-2490	2490-2690
Gain(dBi)	at mid Tilt	17.1	17.6	18.0	17.9
	over all Tilts	17.0±0.5	17.5±0.5	17.9±0.5	17.8±0.6
Horizontal Pattern:					
Azimuth Beam width(°)		66±5	65±5	61±5	58±5
Front to back Ratio Co-pol, ±30°(dB)		>25	>25	>25	>25
Cross Polar Discrimination at Boresight (dB)		>20	>20	>20	>20
Cross Polar Discrimination over Sector (dB)		>10	>10	>10	>10
Vertical Pattern:					
Vertical-3dB Beam width (°)		7.2±0.6	6.5±0.6	5.6±0.5	5.2±0.5
Electrical Down-tilt (°)		2-12, continuously adjustable			
First Upper Side Lobe Suppression (dB)		>15	>15	>15	>15
Cross-Polar Isolation (dB)		> 28			
Port to Port Isolation (dB)		> 28			
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

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Mechanical Specifications	
Connector Type	4.3/10(F) x 4
Connector position	Bottom
Electrical Tilt Control	Integrated RET, Each Band Individually Adjustable
Mechanical Tilt Range	0-16
Radome Material	UPVC/Fiberglass
Antenna Weight(kg)	9.5/13.5 (clamps incl.)
Bracket Diameter(mm)	50-115
Maximum Wind Speed(km/h)	200
Wind Load frontal [N] at 150 Km/h	325
Wind Load rear side[N] at 150 Km/h	365
Wind Load lateral [N] at 150 Km/h	135
Operating Temperature (°C)	-40 ~+60
Antenna Dimensions (H x W x D) (mm)	1377x257x87
Packing Size (H x W x D) (mm)	1597x332x162

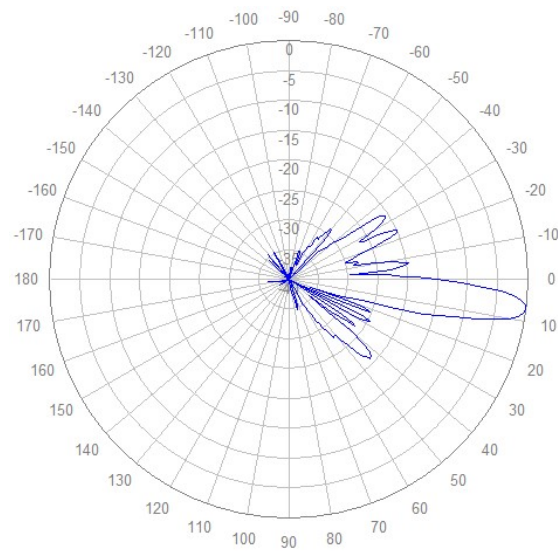
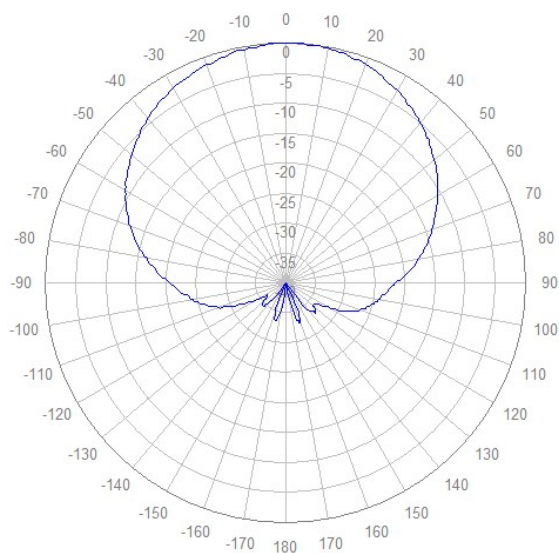
Integrated RET Specifications	
Protocols	Compliant With AISGV2.0 And 3GPP
Supply Voltage, VDC	10–30DC
Power Consumption	<2W (standby); < 10W (motor actived)
Safety Standard	Compliant to EN 60950/UL 60950/ RoHs (Restriction of Hazardous Substances), CE
Lightning Protection Rating	IEC 61000-4-5 Current 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 × Daisy Chain In : Male 1 × 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

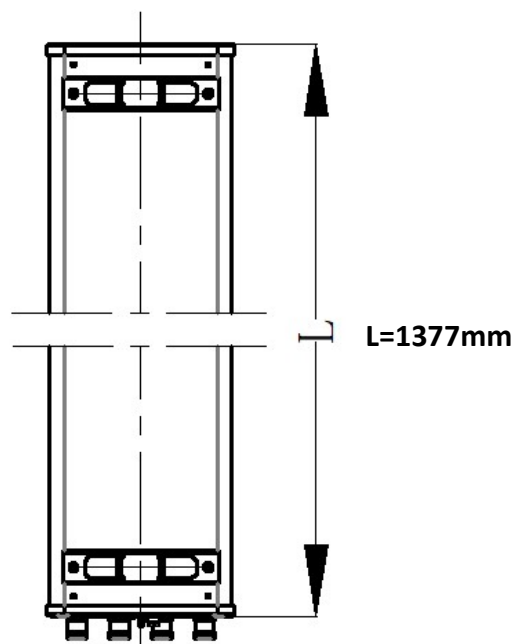
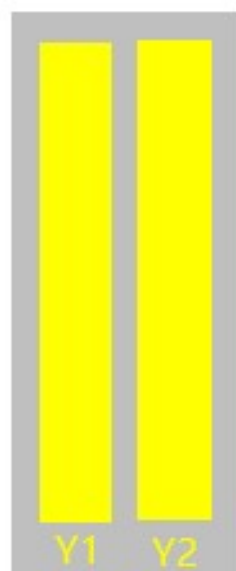
H-Pattern

V-Pattern

Product Specifications



Arrays of the antenna



Ports of the antenna

