

P22380171963R16F4

Multi Band Hybrid 22-Port Antenna

1 x 824~884.1 / 2 x 905~960 / 4 x 1710~1880 / 4 x 1920~2170MHz

65°/35° Horizontal Beam Width

Connector			R1 Connector 1-4	
Frequency Band		MHz	824-884.1	905-960
Polarization			±45°	
Gain	At mid Tilt	dBi	16.8	17.0
	Over all Tilts	dBi	16.8±0.5	17.0±0.5
VSWR			1.5	
Return Loss		dB	14	
Cross Polar Isolation		dB	28	
Port to Port Isolation	Intraband	dB	28(R1/R2)	
	Interband (Low/High)	dB	28(R1 / B1,B2,B3,B4)	
	Interband (Low/Low)	dB	90(824-884.1 / 905-960)	
Passive Intermodulation,2 x 43dBm Carrier		dBc	-160 @ IM5	-160 @ IM5
Max. Effective Power per Port		W	300	
Impedance		Ω	50	
Horizontal Pattern				
Azimuth Beamwidth		°	68±5	68±5
Front to Back Ratio, Copolar, ±30°		dB	28	
Cross Polar Discrimination at Boresight		dB	18	
Vertical Pattern				
Elevation Beamwidth		°	7.1±0.7	6.5±0.5
Electrical Downtilt continuously adjustable		°	0-10	
Connector			R2 Connector 5-6	
Frequency Band		MHz	905-960	
Polarization			±45°	
Gain	At mid Tilt	dBi	17.0	
	Over all Tilts	dBi	17.0±0.5	
VSWR			1.5	
Return Loss		dB	14	
Cross Polar Isolation		dB	28	
Port to Port Isolation	Intraband	dB	28(R1/R2)	
	Interband (Low/High)	dB	28(R2 / B1,B2,B3,B4)	
	Interband (Low/Low)	dB	90(824-884.1 / 905-960)	
Passive Intermodulation,2 x 43dBm Carrier		dBc	-160 @ IM5	
Max. Effective Power per Port		W	300	
Impedance		Ω	50	

Horizontal Pattern

Azimuth Beamwidth	°	68±5
Front to Back Ratio, Copolar, ±30°	dB	28
Cross Polar Discrimination at Boresight	dB	18

Vertical Pattern

Elevation Beamwidth	°	6.5±0.5
Electrical Downtilt continuously adjustable	°	0-10
Upper Sidelobe Suppression @ (9° - 60°)	dB	≥15

Values based on NGMN-P-BASTA requirement

Connector			B1-B4 Connector 7-22	
Frequency Band		MHz	1710-1880	1920-2170
Polarization			±45°	
Gain at mid Tilt	Bottom (B1, B2)	dBi	17.6	18.8
	Top (B3, B4)	dBi	17.1	18.2
Gain over all Tilts	Bottom (B1, B2)	dBi	17.6±0.7	18.7±0.7
	Top (B3, B4)	dBi	17.1±0.7	18.1±0.7
VSWR			1.5	
Return Loss		dB	14	
Cross Polar Isolation		dB	28	
Port to Port Isolation	Intraband	dB	28(B1, B2 / B3, B4)	
	Beam	dB	16(B1/B2, B3/B4)	
	Interband (Low/High)	dB	28(B1,B2,B3,B4 / R1, R2)	
	Interband (High/High)	dB	30(1710-1880 / 1920-2170)	
Passive Intermodulation,2 x 43dBm Carrier		dBc	-150 @ IM3	
Max. Effective Power per Port		W	300	
Impedance		Ω	50	

Horizontal Pattern

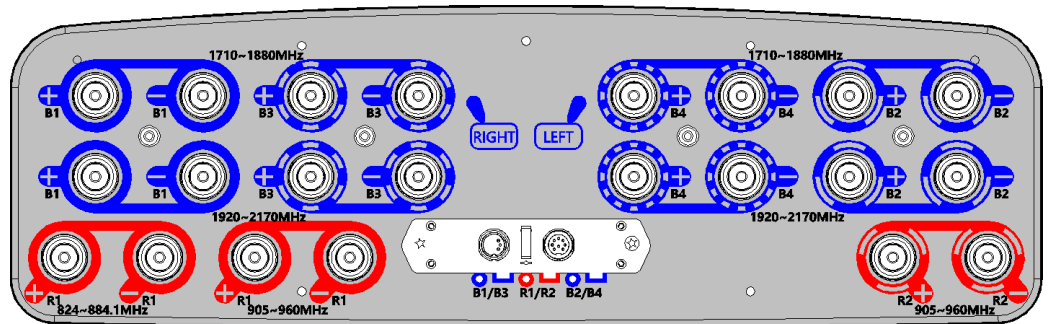
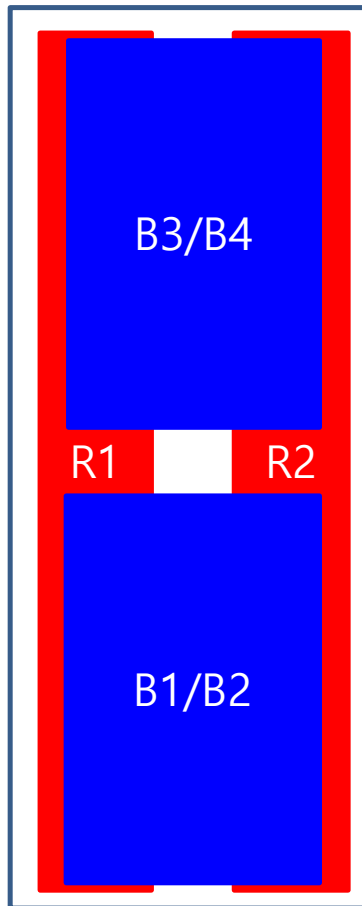
Azimuth Beamwidth	°	35±3	32±3
Front to Back Ratio, Copolar, ±30°	dB	28	
Cross Polar Discrimination at Boresight	dB	18	
Sidelobe Suppression @ (50° - 150°)	dB	≥22	

Vertical Pattern

Elevation Beamwidth	°	8.5±0.7	7.6±0.7
Electrical Downtilt continuously adjustable	°	0-10	
Upper Sidelobe Suppression @ (9° - 60°)	dB	≥15	

Values based on NGMN-P-BASTA requirement

Connector	Quantity	EA	22 x 4.3-10 Female
	Location		Bottom
Dimensions	Antenna	mm	565/170/2695
	Antenna	Kg	44
Weight	Clamp	Kg	2.8
	Packing	Kg	58
Radome	Material		FRP
	Color		Gray
Wind Load (at 150km/h wind velocity)	Frontal	N	1982.0
	Lateral	N	596.4
	Rear	N	1982.0
Max. Wind Velocity		Km/h	216
Operational Temperature		°C	-40~70
Adjustment Mechanism			Internal RET (3CH)
Mast Diameter Supported		mm	40~115



Antenna Model	Connector	RET Serial
-	R1, R2	SJXXXXXXXXXXYYWW00000
-	B1, B3	SJXXXXXXXXXXYYWW00000
-	B2, B4	SJXXXXXXXXXXYYWW00000

Remark : YY – Year, WW – Week, 00000 – Serial Number