

TAMP154

High Gain Broadband 4G/5G MIMO Directional Antenna Module

INTRODUCTION

The TAMP154 is an advanced wireless communication component designed to transmit and receive multiple data streams simultaneously, significantly enhancing signal strength, data throughput, and connection reliability.

With its directional gain capabilities, this type of antenna focuses radio frequency energy in specific directions, reducing interference and extending range significantly for FWA installations.

APPLICATION

Any cellular wireless device that requires a high gain antenna covering 4G LTE and 5G Sub6 frequency bands.

Example Uses – Routers, Gateways, CPEs, Automotive devices, IoT devices, etc

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Features and Benefits

- **High Gain Antenna Module Covering 4G LTE and 5G Sub 6 Bands**
- Broadband 4x4 MIMO Panel Antenna
Connector: SMA (Female),
Optional Cable: 1m, 3m, 6m with
SMA (Male) Connector
- Operating Frequency Bands
– 600~6000MHz
- High Peak Gain up to 9.5 dBi

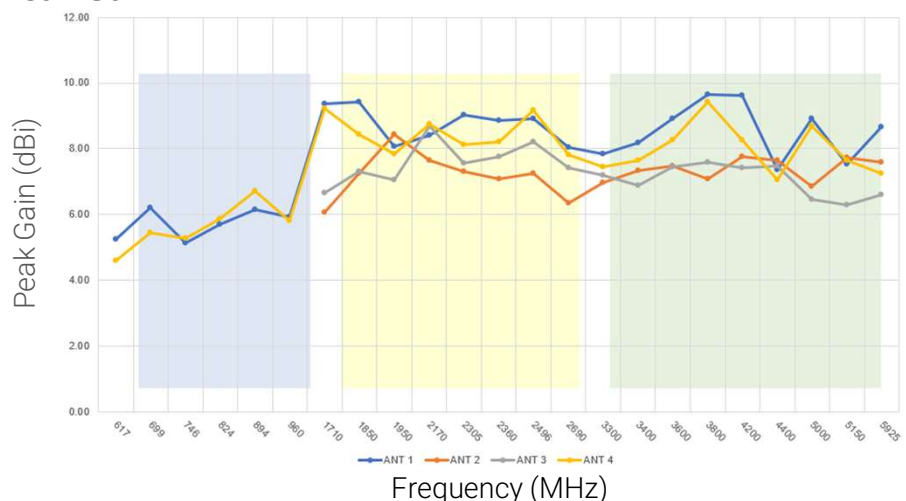


Performance

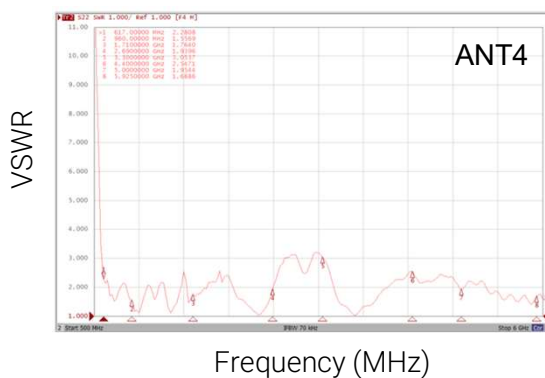
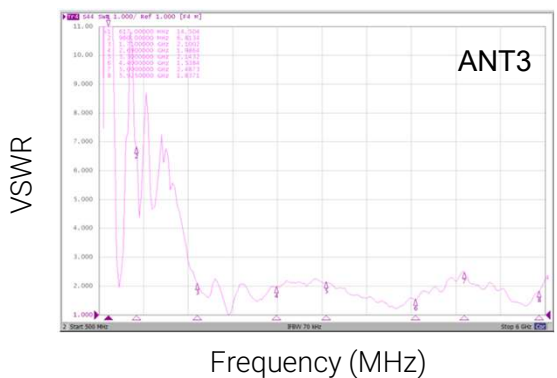
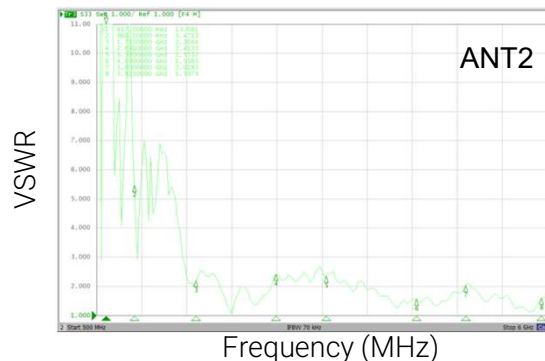
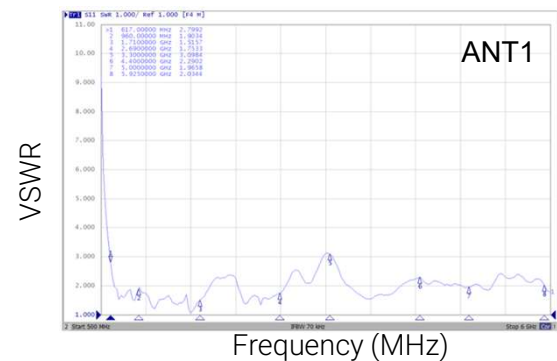
Electrical				
Frequency Range	617-960 MHz	1710-2690 MHz	3300-5000 MHz	5150-5925 MHz
Gain (Peak)	4.6~6.7 dBi	6.1~9.4 dBi	6.5~9.7 dBi	6.3~8.7 dBi
VSWR	≤3.0	≤3.0	≤3.3	≤2.8
Isolation	≤20dB	≤25dB	≤25dB	≤25dB
Efficiency	60~90%	55~85%	50~80%	60~70%
Input Impedance	50Ω			
Antenna Type	Directional			
Power Rating	20 W			

Physical		Extension RF Cable Attenuation (per 1m)	
Radome Color	Pantone blue	617MHz	-0.33
Dimensions (w x h x d) Antenna only	450 x 330.0 x 63.15 mm	960MHz	-0.42
Connector	SMA-female	1710MHz	-0.55
Extension cable Length	1m, 3m and 6m (SMA male to SMA male)	2690MHz	-0.71
Weight	3.0 ± 0.1 kg	3300MHz	-0.84
		5000MHz	-1.03
		5150MHz	-1.07
		5925MHz	-1.11

Peak Gain



VSWR



Peak Gain/ Efficiency

	Frequency [MHz]	617	699	746	824	894	960	1447	1463	1496	1511
ANT 1	Efficiency [%]	60.4	71.6	59.6	63.4	92.8	82.7	79.1	78.1	79.3	75.4
	Peak Gain [dBi]	5.2	6.2	5.1	5.7	6.2	5.9	6.7	6.7	6.5	6.2

	Frequency [MHz]	1710	1850	1950	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925
ANT 1	Efficiency [%]	79.8	81.5	70.9	75.4	81.3	81.9	86.1	78.7	60.9	61.9	73.5	76.6	65.9	54.0	68.1	60.9	67.1
	Peak Gain [dBi]	9.4	9.4	8.1	8.4	9.0	8.9	8.9	8.1	7.9	8.2	8.9	9.7	9.6	7.4	8.9	7.5	8.7

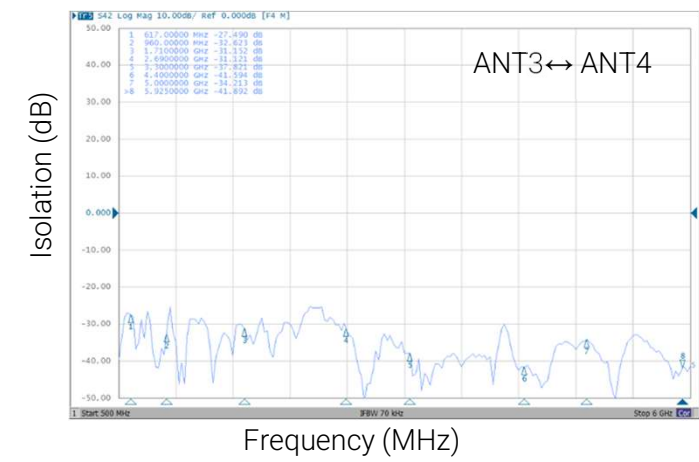
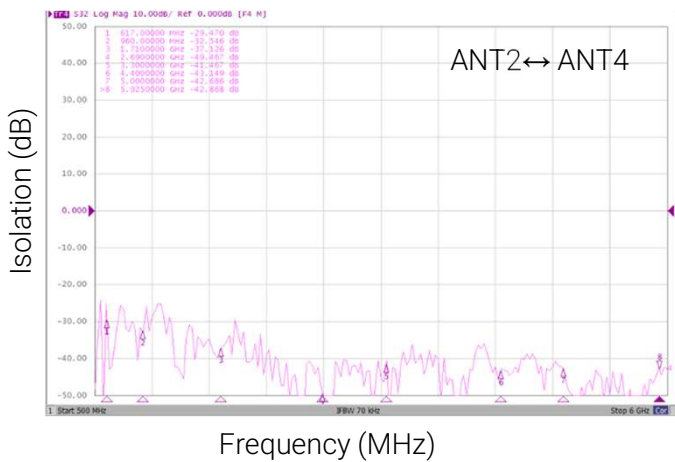
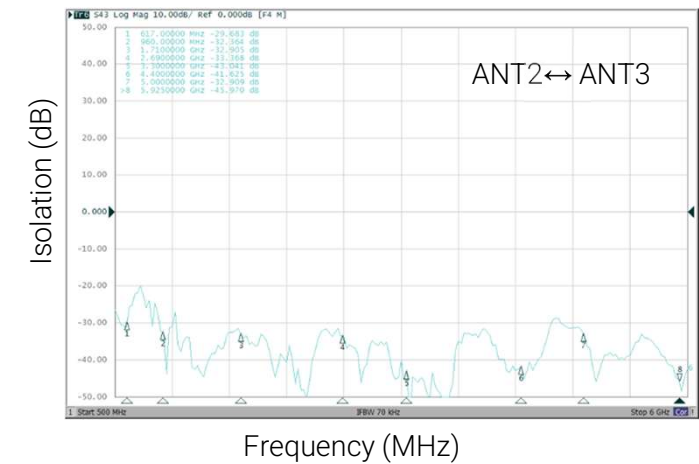
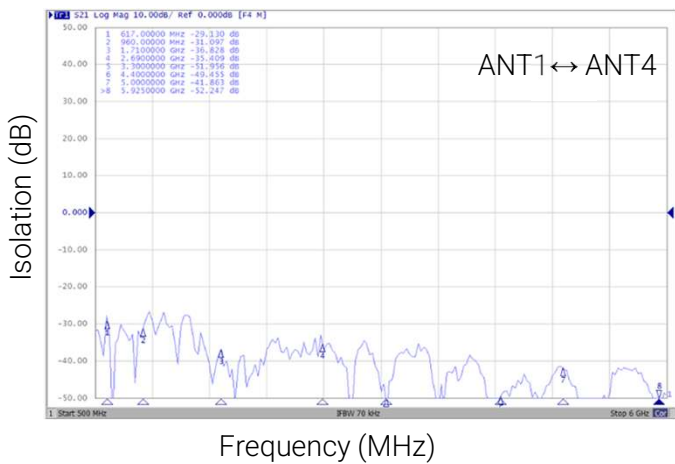
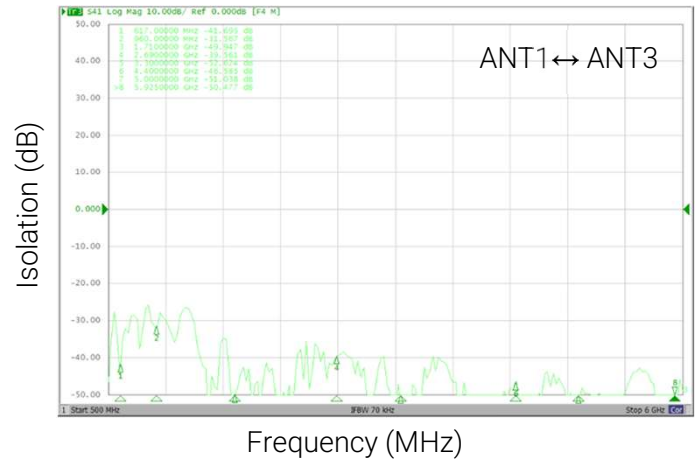
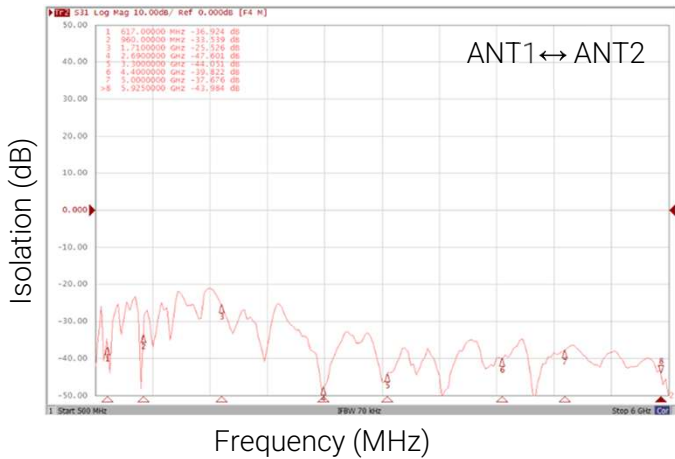
	Frequency [MHz]	1710	1850	1920	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925
ANT 2	Efficiency [%]	70.8	75.1	73	86.9	73.4	76.4	83.4	76.6	67.7	69.4	71.8	71.1	83.1	81.9	70.6	70.8	62.9
	Peak Gain [dBi]	6.1	7.3	8.5	7.7	7.3	7.1	7.2	6.3	7.0	7.3	7.5	7.1	7.8	7.7	6.9	7.7	7.6

	Frequency [MHz]	1710	1850	1920	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925
ANT 3	Efficiency [%]	65.4	80.9	72.0	83.0	72.16	73.7	78.5	77.5	70.6	72.2	75.3	76.7	80.3	78.5	61.3	66.0	59.7
	Peak Gain [dBi]	6.7	7.3	7.1	8.7	7.6	7.8	8.2	7.4	7.2	6.9	7.4	7.6	7.4	7.5	6.5	6.3	6.6

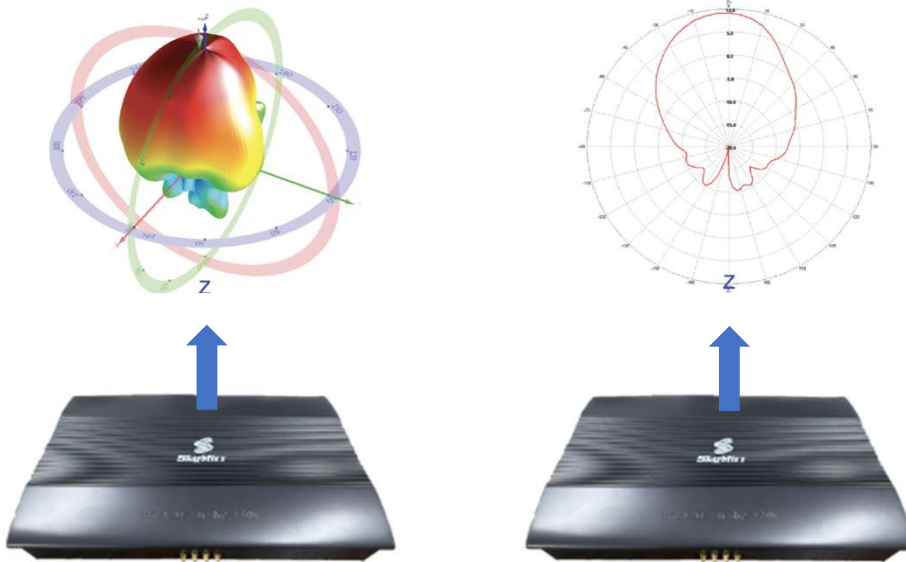
	Frequency [MHz]	617	699	746	824	894	960	1447	1463	1496	1511
ANT 4	Efficiency [%]	70.9	67.5	73.1	69.2	82.5	81.3	73.9	71.0	71.1	66.6
	Peak Gain [dBi]	4.6	5.4	5.3	5.9	6.7	5.8	6.5	6.4	6.2	6.5

	Frequency [MHz]	1710	1850	1950	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925
ANT 4	Efficiency [%]	71.0	67.5	54.9	74.0	79.0	79.7	81.5	66.1	51.5	57.5	76.4	74.6	60.5	43.2	66.8	59.7	64.7
	Peak Gain [dBi]	9.2	8.5	7.8	8.8	8.1	8.2	9.2	7.8	7.5	7.6	8.3	9.4	8.3	6.6	8.7	7.7	7.3

Isolation

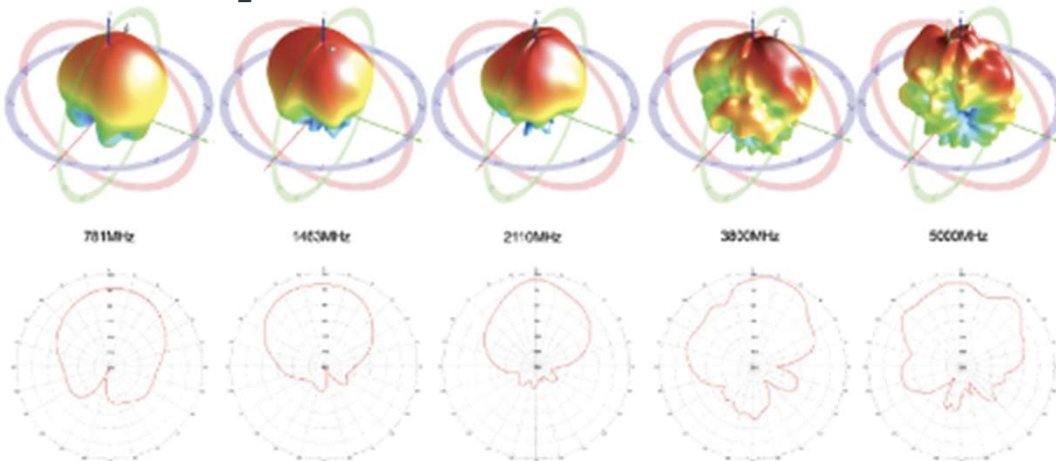


Radiation Direction

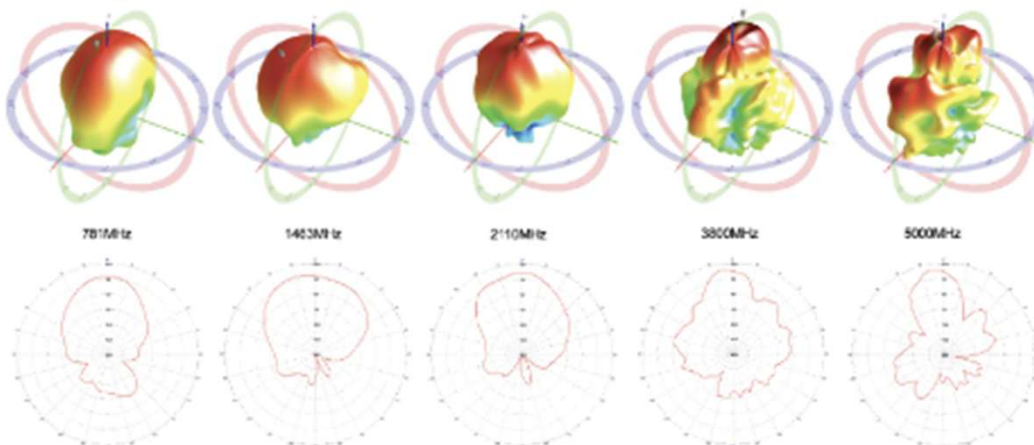


Radiation Pattern

Radiation Pattern_ANT1

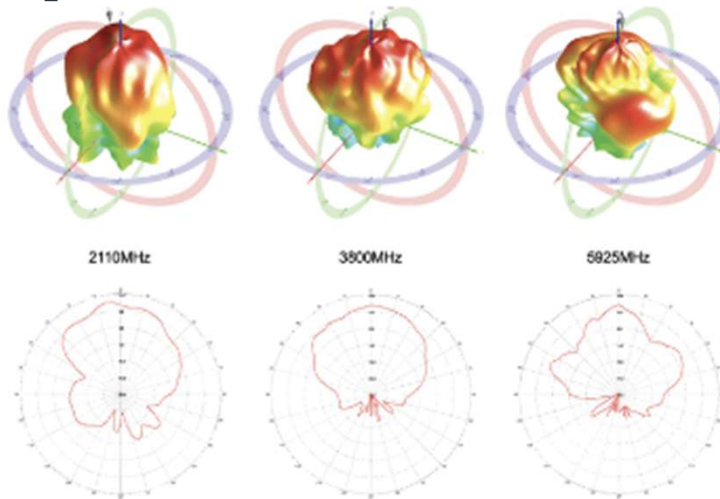


Radiation Pattern_ANT2

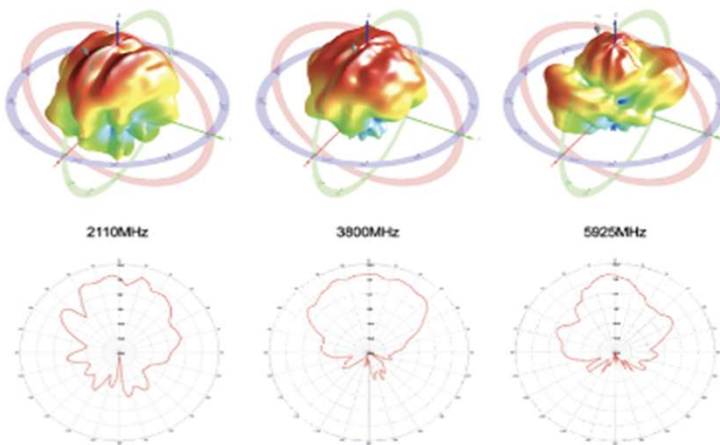


Radiation Pattern

Radiation Pattern_ANT3



Radiation Pattern_ANT4



Dimension (unit: mm)

