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2026

ANTENNA CATALOG

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TAMP141

Cellular Antenna

4G LTE / 5G Ultra Broadband Omni Antenna

INTRODUCTION

The TAMP141 is an ultra wideband omnidirectional external antenna with high performance, covering the entire 4G LTE and 5G Sub6 frequency bands. It can be used for connecting wireless communication devices such as Consumer Premise Equipment (CPE) or various IoT applications, sensors, trackers, and smart devices to the mobile network.

APPLICATION

Any wireless device using 4G and/or 5G Sub6 frequency bands operating in any region throughout the world.

The TAMP141 performs especially well in the lower 600 MHz bands where newer sub6 5G bands operate.

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



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Features and Benefits

- **External Antenna with Hinge Covering All 4G/5G Sub6 Bands with high Performance**
- Antenna Size: 196.32 mm x 38.21 mm x Φ 13 mm
- Connector : SMA (male)
- Color : Black / White
- Operating Frequency Bands
 - 617~960Mhz
 - 1447~2690Mhz
 - 3300~5925Mhz
- High Efficiency up to 76%
- Peak Gain: -1 ~ 6 dBi
- RoHS Compliance

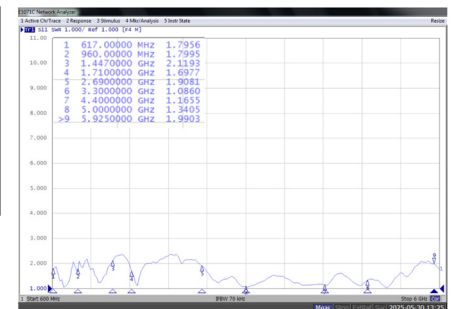


Performance

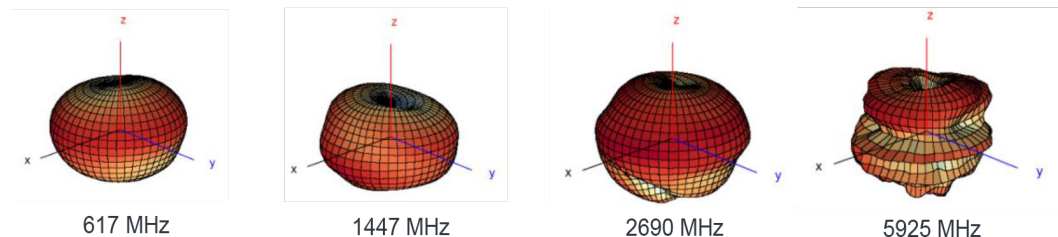
Gain and Efficiency

Frequency [Mhz]	617	960	1447	1710	2170	2305	2690	3300	4200	5000	5925
Efficiency [%]	57.7	77.2	72.8	76.1	82.2	70.8	77.5	75.3	76.3	77.5	66.0
Peak Gain [dBi]	2.12	3.23	2.90	3.28	2.24	1.82	2.07	6.41	2.99	3.76	4.16
Impedance	50 Ω										
Polarization	Vertical										
Directivity	Omnidirectional										

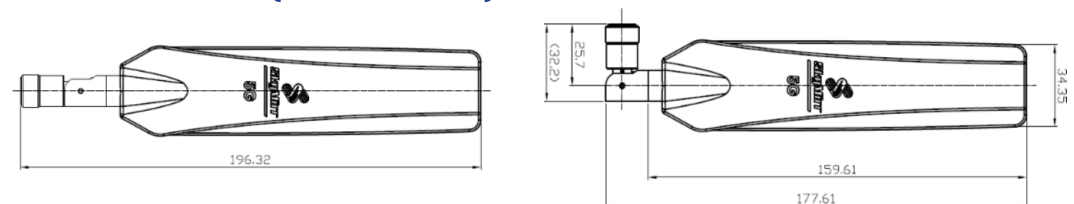
VSWR



Radiation Pattern



Dimension (unit: mm)



TAMP154

Cellular Antenna

High Gain 4G/5G MIMO Directional Antenna

Features and Benefits

- **High Gain Antenna Module Covering 4G LTE and 5G Sub 6 Bands**
- Wideband 4x4 MIMO Panel Antenna
- Connector : SMA (male), standard (or Fully Customizable upon order)
- Operating Frequency Bands
 - 600~6000MHz
- High Peak Gain up to 9.5 dBi



Performance

Electrical

Frequency Range	617-960 MHz	1447-1511 MHz	1710-2690 MHz	3300-5000 MHz	5000-6000 MHz
Gain (Peak)	6.5 dBi	6.5 dBi	9.5 dBi	9.5 dBi	8.9 dBi
VSWR	≤3.0	≤3.0	≤3.0	≤3.0	≤2.5
Isolation	≤20dB	≤20dB	≤25dB	≤25dB	≤25dB
Efficiency (Peak)	90%	79%	85%	80%	70%
Input Impedance	50Ω				
Antenna Type	Directional				
Power Rating	620 W				

Mechanical (Antenna)

Radome Color		White	RF Cable Attenuation (per 3m)	
Antenna	Dimensions (w x h x d) Antenna only	444.5 x 326.0 x 55.7 mm	600MHz	0.9 dB
	Dimensions (w x h x d) With a stand	444.5 x 400.17 x 180.22 mm	900MHz	1.1 dB
	Dimensions (w x h x d) With a stand	444.5 x 400.17 x 180.22 mm	1700MHz	1.5 dB
Cable	Connector	SMA-Male (Fully Customizable upon order)	2400MHz	1.8 dB
	Type	LMR-195	3300MHz	2.2 dB
	Length	300mm (Fully Customizable upon order)	4000MHz	2.5 dB
Weight		3.31Kg	5000MHz	2.7 dB
			6000MHz	3.0 dB

VSWR



Peak Gain/Efficiency

ANT 1	Frequency [MHz]	617	699	746	824	894	960	1447	1463	1496	1511								
	Efficiency [%]	60.42	71.6	59.57	63.42	92.81	82.74	79.1	78.11	79.25	75.37								
	Peak Gain [dBi]	5.24	6.2	5.13	5.7	6.16	5.92	6.67	6.66	6.54	6.18								
ANT 1	Frequency [MHz]	1710	1850	1950	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925	
	Efficiency [%]	79.83	81.45	70.87	75.44	81.31	81.86	86.11	78.68	60.86	61.86	73.54	76.61	65.88	53.99	68.06	60.93	67.07	
	Peak Gain [dBi]	9.37	9.43	8.07	8.42	9.03	8.86	8.92	8.05	7.85	8.18	8.91	9.65	9.61	7.36	8.91	7.54	8.67	
ANT 2	Frequency [MHz]	617	699	746	824	894	960	1447	1463	1496	1511								
	Efficiency [%]	70.94	67.47	73.06	69.2	82.54	81.29	73.86	70.96	71.08	66.55								
	Peak Gain [dBi]	4.6	5.44	5.29	5.87	6.71	5.82	6.52	6.38	6.23	6.45								
ANT 2	Frequency [MHz]	1710	1850	1950	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925	
	Efficiency [%]	70.97	67.47	54.9	73.95	79.04	79.64	81.45	66.14	51.45	57.47	76.38	74.63	60.52	43.21	66.77	59.69	64.73	
	Peak Gain [dBi]	9.22	8.45	7.84	8.75	8.14	8.21	9.18	7.83	7.45	7.64	8.27	9.43	8.28	6.55	8.68	7.66	7.26	
ANT 3	Frequency [MHz]	1710	1850	1920	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925	
	Efficiency [%]	70.8	75.08	73	86.86	73.39	76.38	83.38	76.57	67.65	69.35	71.77	71.05	83.14	81.88	70.63	70.76	62.89	
	Peak Gain [dBi]	6.08	7.25	8.45	7.65	7.31	7.09	7.24	6.34	6.96	7.34	7.49	7.08	7.75	7.65	6.85	7.73	7.58	
ANT 4	Frequency [MHz]	1710	1850	1920	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925	
	Efficiency [%]	65.36	80.93	72.04	82.99	72.16	73.65	78.54	77.45	70.56	72.16	75.28	76.72	80.3	78.47	61.29	65.96	59.68	
	Peak Gain [dBi]	6.65	7.3	7.05	8.68	7.57	7.75	8.2	7.41	7.19	6.89	7.44	7.58	7.43	7.48	6.45	6.3	6.59	

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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Cellular Antenna

TAMP114

4G LTE / 5G Wideband Omni Antenna

INTRODUCTION

The TAMP114 is an omnidirectional external antenna used for connecting 4G LTE / 5G wireless communication devices such as Consumer Premise Equipment (CPE), various IoT applications, sen-sors, trackers, smart devices, and AMI devices to the mobile network.

APPLICATION

Any wireless device that requires 4G and 5G Sub6 frequency band coverage.

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



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Features and Benefits

- **External Antenna without Hinge Covering Key 4G/5G Sub6 Bands**
- Antenna Size : 125.5 x ϕ 13mm
- Connector : SMA (male)
- Color : Black / White
- Operating Frequency Bands
 - 824~960Mhz
 - 1710~2170Mhz
 - 2500~2690Mhz
- High Efficiency up to 80%
- Peak Gain: -0.4 ~ 3.8 dBi
- IP54
- 50 ohm / SMA male connector
- RoHS compliance

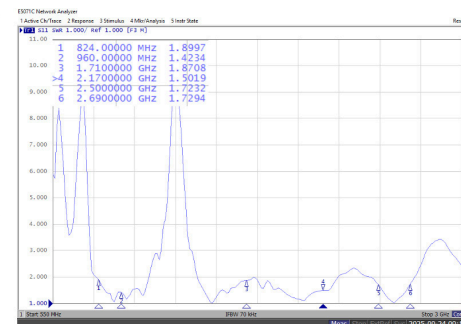


Performance

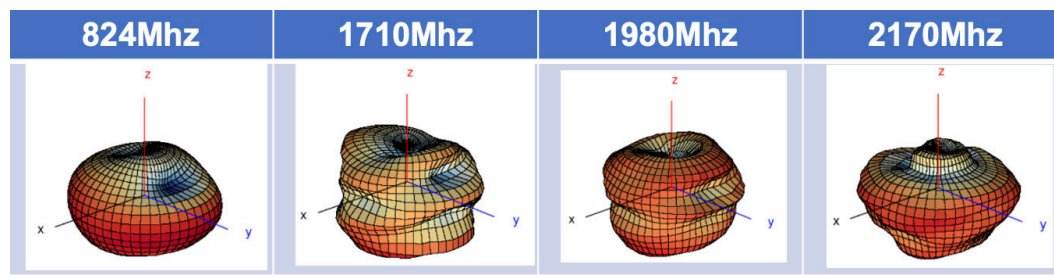
Gain and Efficiency

Frequency [Mhz]	Low Band				Mid/High Band					
	824	880	894	960	1710	1880	1920	2170	2500	2690
Efficiency [%]	64.4	66.5	75.7	77.9	46.4	64.0	56.9	41.3	53.3	61.6
Peak Gain [dBi]	1.11	1.51	2.21	2.09	2.65	3.87	3.06	1.30	1.97	2.76
Impedance	50 Ω									
Polarization	Vertical									
Directivity	Omni Directional									

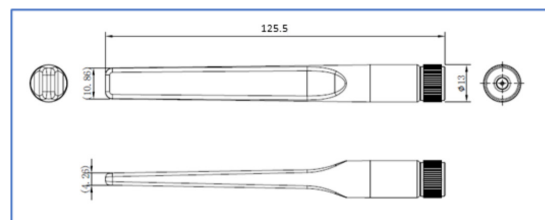
VSWR



Radiation Pattern



Dimension (unit: mm)



Cellular Antenna

TAMP141

4G LTE / 5G Ultra Broadband Omni Antenna

INTRODUCTION

The TAMP141 is an ultra wideband omnidirectional external antenna with high performance, covering the entire 4G LTE and 5G Sub6 frequency bands. It can be used for connecting wireless communication devices such as Consumer Premise Equipment (CPE) or various IoT applications, sensors, trackers, and smart devices to the mobile network.

APPLICATION

Any wireless device using 4G and/or 5G Sub6 frequency bands operating in any region throughout the world.

The TAMP141 performs especially well in the lower 600 MHz bands where newer sub6 5G bands operate.

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



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Features and Benefits

- **External Antenna with Hinge Covering All 4G/5G Sub6 Bands with high Performance**
- Antenna Size: 196.32 mm x 38.21 mm x Φ 13 mm
- Connector : SMA (male)
- Color : Black / White
- Operating Frequency Bands
 - 617~960Mhz
 - 1447~2690Mhz
 - 3300~5925Mhz
- High Efficiency up to 76%
- Peak Gain: -1 ~ 6 dBi
- RoHS Compliance

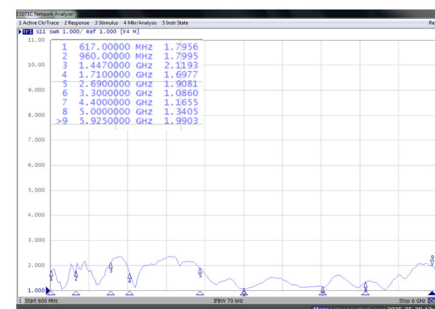


Performance

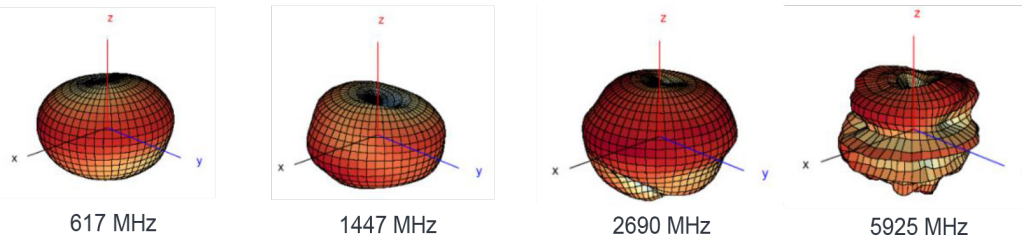
Gain and Efficiency

Frequency [MHz]	617	960	1447	1710	2170	2305	2690	3300	4200	5000	5925
Efficiency [%]	57.7	77.2	72.8	76.1	82.2	70.8	77.5	75.3	76.3	77.5	66.0
Peak Gain [dBi]	2.12	3.23	2.90	3.28	2.24	1.82	2.07	6.41	2.99	3.76	4.16
Impedance	50 Ω										
Polarization	Vertical										
Directivity	Omnidirectional										

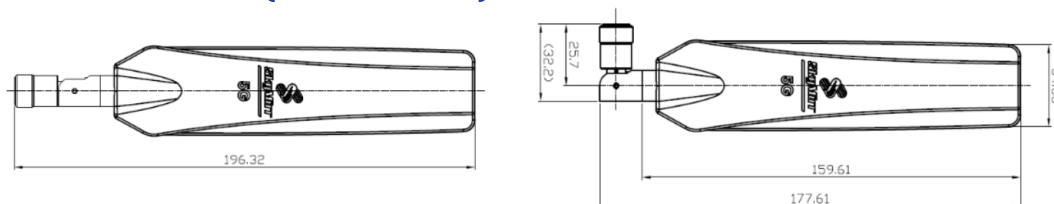
VSWR



Radiation Pattern



Dimension (unit: mm)



Cellular Antenna

TAMP125

4G LTE/5G Broadband MIMO Antenna Module

INTRODUCTION

The TAMP125 is an MIMO antenna module supporting entire 4G LTE and 5G sub6 bands, including the very low 600 MHz band, with good gain and isolation. It supports 2x2 MIMO at the low bands and 4x4 MIMO in mid/high bands. It can be used for advanced wireless communication devices or systems.

APPLICATION

Any 4G/5G wireless device or system that requires MIMO coverage with good gain and isolation. Ideal for external / remote antenna installations.

Examples – Home networking, Logistic, Automotives, Routers, Gateways, CPEs, and more IoT devices.



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Features and Benefits

- **High Gain MIMO Antenna Module Covering ALL 4G LTE and 5G Sub 6 Bands**
- Antenna Size: 125 mm x 80 mm x 22 mm (not including Cable and Connector)
- Connector: SMA
- Operating Frequency Bands
 - 600~960MHz
 - 1710~2170MHz
 - 2500~2690MHz
 - 3300~6000MHz
- Supports 4x4 MIMO at 1710~6000MHz
- Supports 2x2 MIMO at 600~960MHz
- High Peak Gain up to 3.3 dBi
- High Efficiency up to 53%
- RoHS Compliance



Performance

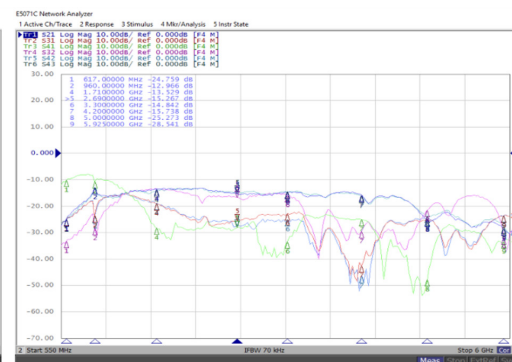
Gain and Isolation

	Frequency [MHz]	Low Band					Mid/High Band					Ultra High Band							
		617	699	746	824	960	1710	1850	2170	2360	2496	2690	3300	3600	3800	4200	4400	5000	5925
Efficiency	5G Main-Ant1	33.5	48.1	41.3	53.1	46.3	31.9	28.1	39.6	38.1	46.6	46.3	53.5	50.4	37.3	38.0	33.2	30.3	45.6
	5G AUX-Ant3						29.4	31.4	30.6	36.1	36.5	37.8	42.9	45.9	33.0	35.1	32.0	26.7	30.3
	5G AUX-Ant4						29.1	31.6	28.3	31.3	33.2	35.5	39.6	42.8	28.8	32.7	30.1	26.0	29.0
	5G Main-Ant2	33.5	49.6	51.0	52.1	40.6	35.4	31.6	45.4	38.5	47.9	46.5	53.1	49.2	38.5	39.4	31.8	32.0	44.5
	Average	33.5	48.8	46.1	52.6	43.5	31.5	30.7	36.0	36.0	41.0	41.5	47.3	47.1	34.4	36.3	31.8	28.7	37.3
Peak Gain	5G Main-Ant1	-0.75	1.36	-0.18	1.14	1.00	-0.76	-0.93	-0.51	0.43	1.18	0.83	0.67	0.94	-0.33	1.37	1.31	1.00	3.36
	5G AUX-Ant3						-2.51	-1.99	-1.62	-0.07	-0.94	-0.14	2.01	1.56	0.77	-0.09	-0.75	0.07	-0.03
	5G AUX-Ant4						-2.22	-1.99	-1.72	-1.19	-0.52	-0.93	1.99	1.03	0.66	-0.22	-0.61	-0.22	-0.55
	5G Main-Ant2	-0.35	0.48	0.42	-0.06	-0.08	-0.73	-0.63	0.54	0.46	1.07	1.45	0.61	1.03	0.20	1.41	1.23	1.14	2.91
	Average	-0.55	0.92	0.12	0.54	0.46	-1.55	-1.38	-0.83	-0.09	0.20	0.30	1.32	1.14	0.32	0.62	0.30	0.50	1.42

SWR



Isolation between ports

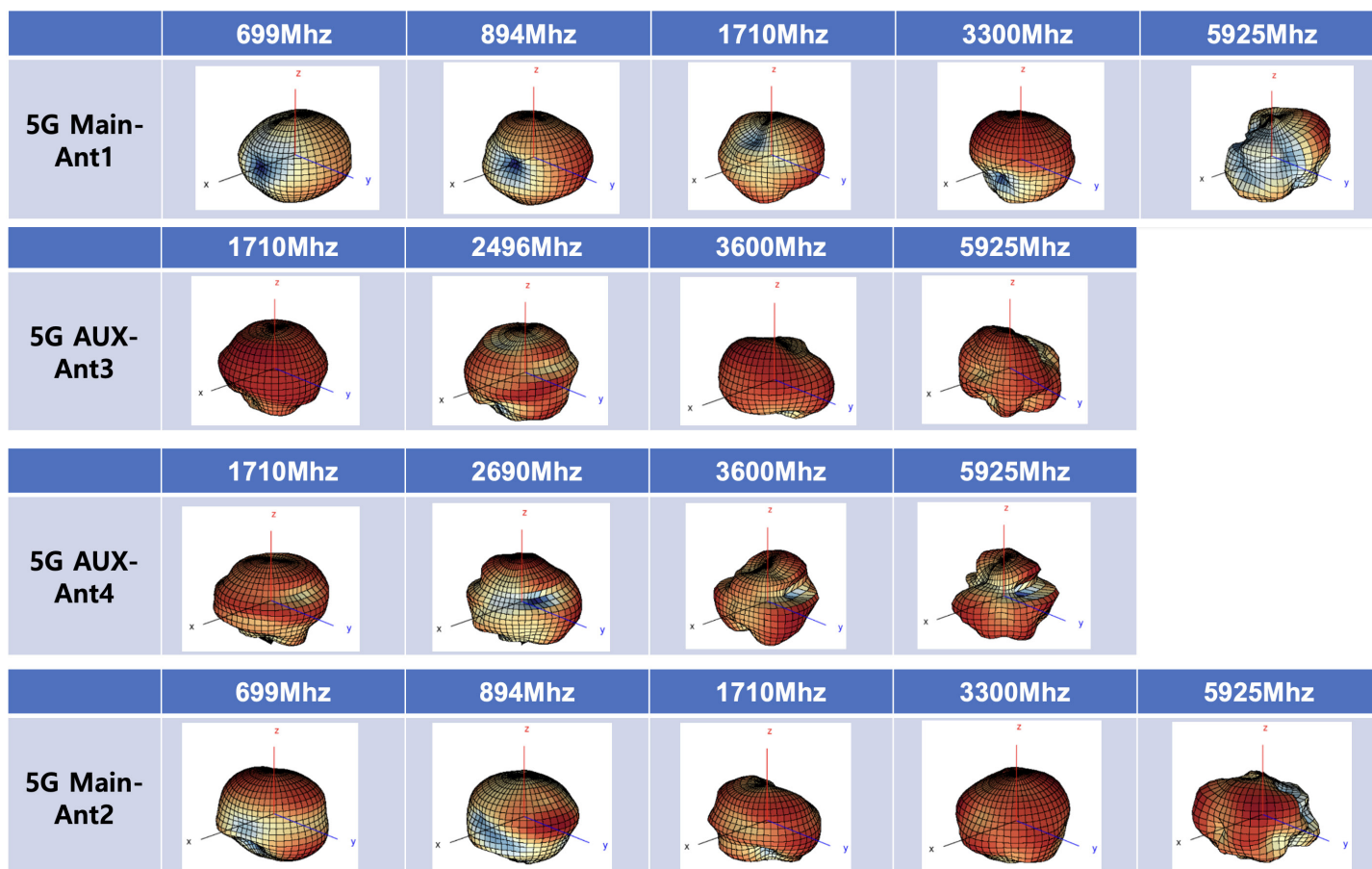


Cellular Antenna

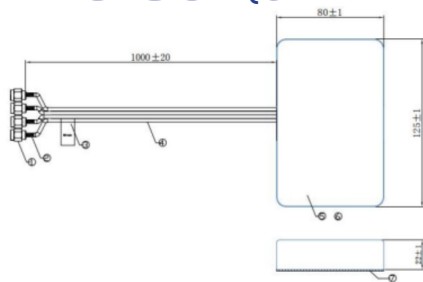
TAMP125

4G LTE/5G Broadband MIMO Antenna Module

Performance (continued)



Dimension (unit: mm)



RF Cable length: 1.5m



Cellular Antenna

TAMP154

High Gain 4G/5G MIMO Directional Antenna

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**
- Wideband 4x4 MIMO Panel Antenna
- Connector : SMA (male), standard (or Fully Customizable upon order)
- Operating Frequency Bands
 - 600~6000MHz
- High Peak Gain up to 9.5 dBi



Performance

Electrical

Frequency Range	617-960 MHz	1447-1511 MHz	1710-2690 MHz	3300-5000 MHz	5000-6000 MHz
Gain (Peak)	6.5 dBi	6.5 dBi	9.5 dBi	9.5 dBi	8.9 dBi
VSWR	≤3.0	≤3.0	≤3.0	≤3.0	≤2.5
Isolation	≤20dB	≤20dB	≤25dB	≤25dB	≤25dB
Efficiency (Peak)	90%	79%	85%	80%	70%
Input Impedance	50Ω				
Antenna Type	Directional				
Power Rating	620 W				

Mechanical (Antenna)

Radome Color		White	RF Cable Attenuation (per 3m)	
Antenna	Dimensions (w x h x d) Antenna only	444.5 x 326.0 x 55.7 mm	600MHz	0.9 dB
	Dimensions (w x h x d) With a stand	444.5 x 400.17 x 180.22 mm	900MHz	1.1 dB
	Connector	SMA-Male (Fully Customizable upon order)	1700MHz	1.5 dB
Cable	Type	LMR-195	2400MHz	1.8 dB
	Length	300mm (Fully Customizable upon order)	3300MHz	2.2 dB
	Weight	3.31Kg	4000MHz	2.5 dB
			5000MHz	2.7 dB
			6000MHz	3.0 dB

VSWR



Peak Gain/Efficiency

ANT 1	Frequency [MHz]	617	699	746	824	894	960	1447	1463	1496	1511							
	Efficiency [%]	60.42	71.6	59.57	63.42	92.81	82.74	79.1	78.11	79.25	75.37							
	Peak Gain [dBi]	5.24	6.2	5.13	5.7	6.16	5.92	6.67	6.66	6.54	6.18							
ANT 1	Frequency [MHz]	1710	1850	1950	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925
	Efficiency [%]	79.83	81.45	70.87	75.44	81.31	81.86	86.11	78.68	60.86	61.86	73.54	76.61	65.88	53.99	68.06	60.93	67.07
	Peak Gain [dBi]	9.37	9.43	8.07	8.42	9.03	8.86	8.92	8.05	7.85	8.18	8.91	9.65	9.61	7.36	8.91	7.54	8.67
ANT 2	Frequency [MHz]	617	699	746	824	894	960	1447	1463	1496	1511							
	Efficiency [%]	70.94	67.47	73.06	69.2	82.54	81.29	73.86	70.96	71.08	66.55							
	Peak Gain [dBi]	4.6	5.44	5.29	5.87	6.71	5.82	6.52	6.38	6.23	6.45							
ANT 2	Frequency [MHz]	1710	1850	1950	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925
	Efficiency [%]	70.97	67.47	54.9	73.95	79.04	79.64	81.45	66.14	51.45	57.47	76.38	74.63	60.52	43.21	66.77	59.69	64.73
	Peak Gain [dBi]	9.22	8.45	7.84	8.75	8.14	8.21	9.18	7.83	7.45	7.64	8.27	9.43	8.28	6.55	8.68	7.66	7.26
ANT 3	Frequency [MHz]	1710	1850	1920	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925
	Efficiency [%]	70.8	75.08	73	86.86	73.39	76.38	83.38	76.57	67.65	69.35	71.77	71.05	83.14	81.88	70.63	70.76	62.89
	Peak Gain [dBi]	6.08	7.25	8.45	7.65	7.31	7.09	7.24	6.34	6.96	7.34	7.49	7.08	7.75	7.65	6.85	7.73	7.58
ANT 4	Frequency [MHz]	1710	1850	1920	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	5000	5150	5925
	Efficiency [%]	65.36	80.93	72.04	82.99	72.16	73.65	78.54	77.45	70.56	72.16	75.28	76.72	80.3	78.47	61.29	65.96	59.68
	Peak Gain [dBi]	6.65	7.3	7.05	8.68	7.57	7.75	8.2	7.41	7.19	6.89	7.44	7.58	7.43	7.48	6.45	6.3	6.59

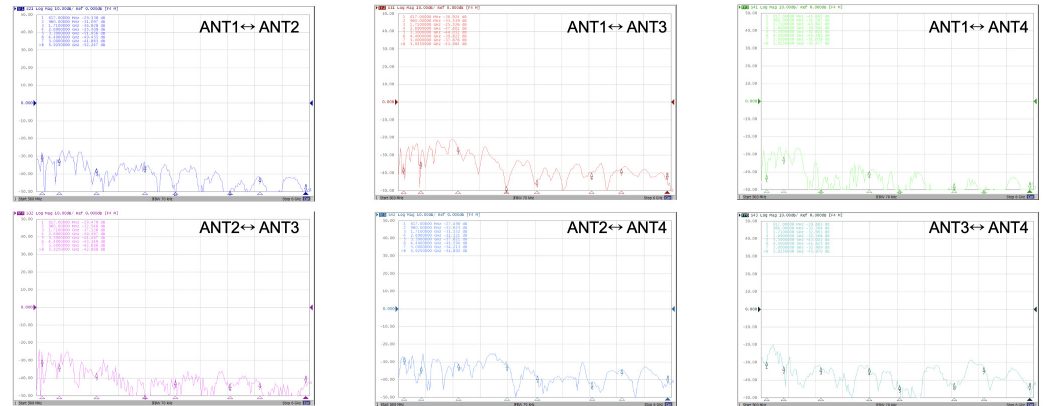
TAMP154

High Gain 4G/5G MIMO Directional Antenna

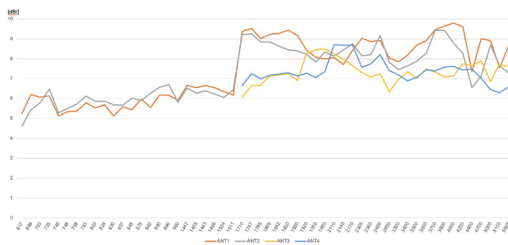
Cellular Antenna

Performance (continued)

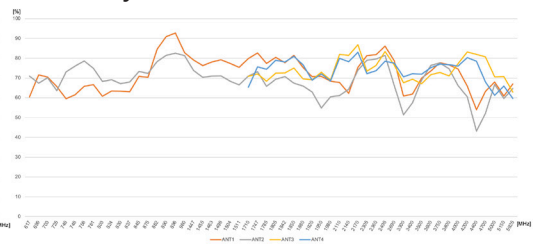
Isolation



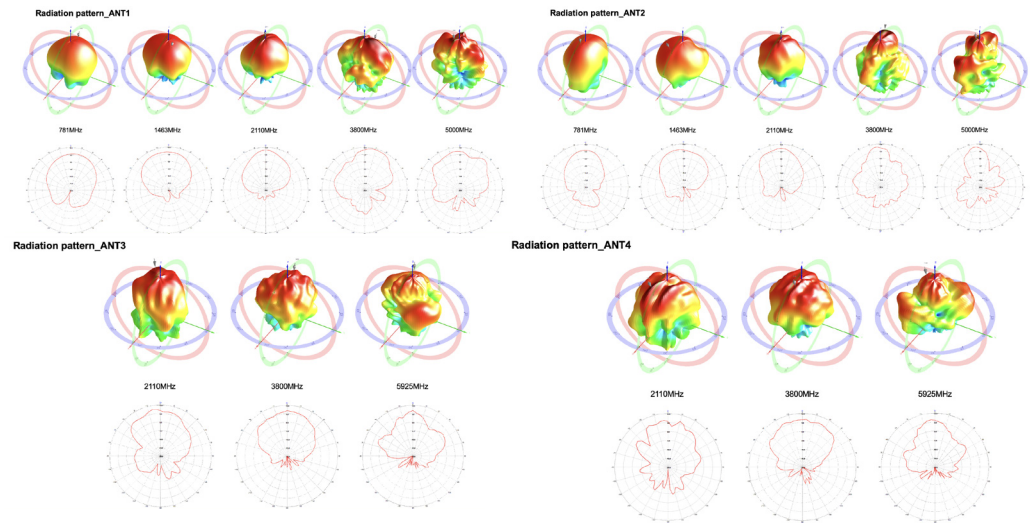
Peak Gain



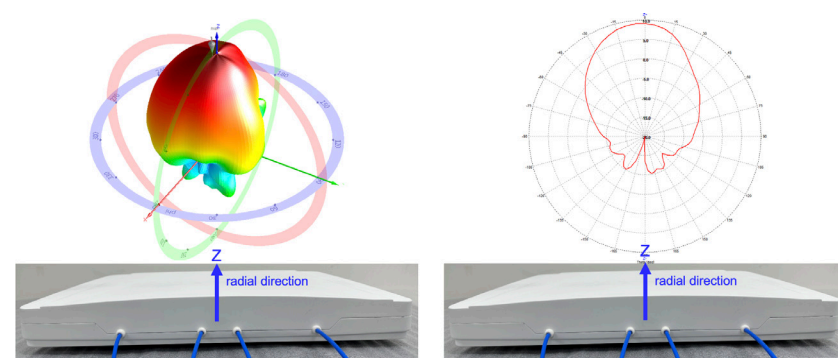
Efficiency



Radiation Pattern



Antenna radiation direction



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WiFi Antenna

TAEP121

Wi-Fi 6e/7 Embedded Antenna

INTRODUCTION

The TAEP121 is an omnidirectional Wi-Fi dual band antenna used to connect wireless communication devices such as laptop computers, printers, and cameras etc. to a Wi-Fi 6e router.

APPLICATION

Any wireless device that requires an embedded (internal) antenna covering Wi-Fi 6e frequency bands.

Examples Uses – Routers, Gateways, CPEs, Automotive devices, IoT devices, etc.

Features and Benefits

- **Embedded Antenna Covering Wi-Fi 2.4/5.8/7.1 GHz Triple Bands**
- Antenna Size: 35.3 x 9mm (FPC)
- Connector: MHF1 (or MHF4) plug
- Coaxial Cable: $\Phi 1.13 \times 100\text{mm}$ (Length is customizable)
- Operating Frequency Bands:
 - 2400~2500Mhz
 - 5100~7125Mhz
- High Efficiency up to 85%
- Peak Gain: 1.5~3.8 dBi
- RoHS Compliance

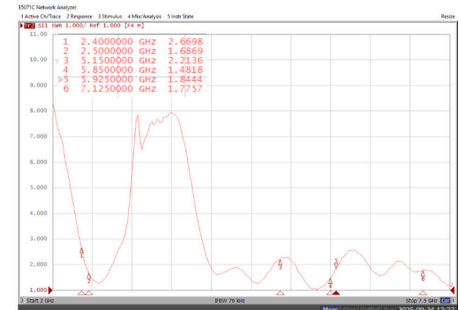


Performance

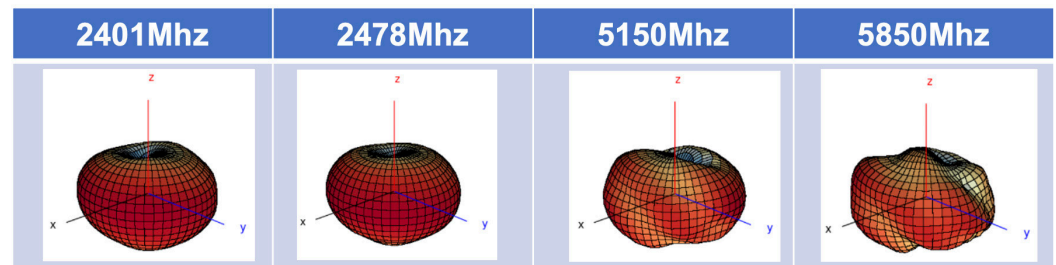
Gain and Efficiency

Frequency [Mhz]	2.4Ghz Band			5Ghz Band					
	2401	2442	2478	5150	5220	5500	5750	5805	5855
Efficiency [%]	78.0	85.0	81.5	55.6	56.9	71.0	80.2	70.5	71.2
Peak Gain [dBi]	1.51	1.80	1.60	1.69	1.39	3.38	3.77	3.29	3.66
Impedance	50 Ω								
Polarization	Vertical								
Directivity	Omni Directional								

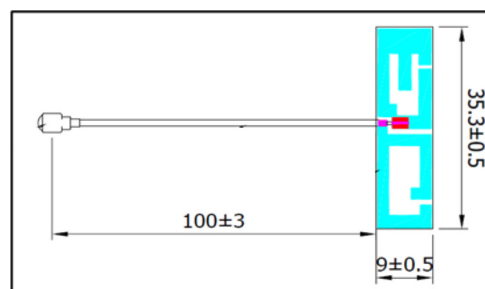
VSWR



Radiation Pattern



Dimension (unit: mm)



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WiFi Antenna

TAMP118

Wi-Fi 6e/7 External Antenna

INTRODUCTION

The TAMP118 is an omnidirectional Wi-Fi external antenna used for connecting wireless communication equipment such as a Wi-Fi 6e, Wi-Fi7 router to client devices.

APPLICATION

Any wireless device that requires an antenna covering Wi-Fi frequency bands.

Examples Uses – Routers, Gateways, CPEs, Automotive devices, IoT devices, etc.

Features and Benefits

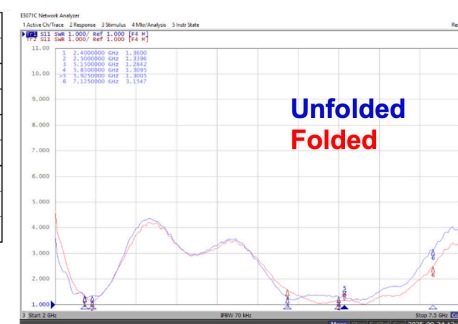
- **External Antenna with Hinge Covering WiFi 2.4/5.2/6 GHz Triple Bands**
- Antenna Size: 156.4 X Φ 13mm
- Connector: SMA male
- Color: Black / White
- Operating Frequency Bands:
 - 2400~2500MHz
 - 5100~5900MHz
 - 5925~7125MHz
- High Efficiency up to 90%
- Peak Gain: 1.9~4.1 dBi

Performance

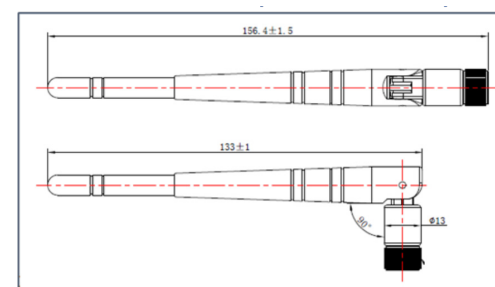
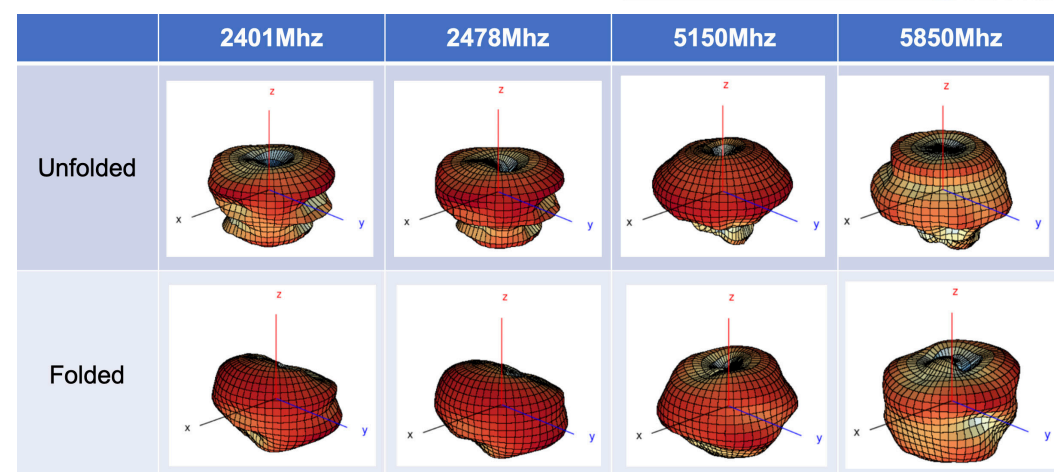
Gain and Efficiency

	Frequency [Mhz]	2.4Ghz Band			5Ghz Band						
		2401	2442	2478	5150	5220	5500	5750	5805	5825	5855
Unfolded	Efficiency [%]	68.2	72.7	74.3	63.0	64.9	66.8	77.0	77.7	73.9	77.2
	Peak Gain [dBi]	2.70	3.05	3.26	1.88	2.25	3.15	2.78	2.35	2.42	2.70
Folded	Efficiency [%]	79.8	88.2	85.0	67.2	66.4	81.5	90.3	85.4	88.7	89.5
	Peak Gain [dBi]	2.93	3.26	3.11	2.31	2.19	3.20	4.18	3.91	3.89	3.91
Impedance		50 Ω									
Polarization		Vertical									
Directivity		Omni Directional									

VSWR



Radiation Pattern



Dimension (unit: mm)



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FPCB Antenna

TAEP135

WiFi 6e/7 Triple Band FPCB Antenna

Features and Benefits

- **Ultra-Wideband FPCB Antenna Covering Entire WiFi 6e/7 bands**
- Antenna Size: 35.4 mm x 13.4 mm x 0.5 mm (not including Cable and Connector)
- Connector: UFL (Male) connector with a 150mm coaxial cable
- Operating Frequency Bands
 - 2400~2500MHz
 - 5150~7125MHz
- High efficiency up to 85%
- Peak Gain: 1.0~3.5dBi
- RoHS Compliance



INTRODUCTION

The TAEP135 antenna is an omni-directional, FPCB antenna for any 4G/5G devices. TAEP135 can cover entire WiFi 6e/7 bands at 2400/ 5200/ 7100MHz.

APPLICATION

Any wireless device that requires a high efficiency antenna covering entire WiFi 6e/7 frequency bands.

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

Performance

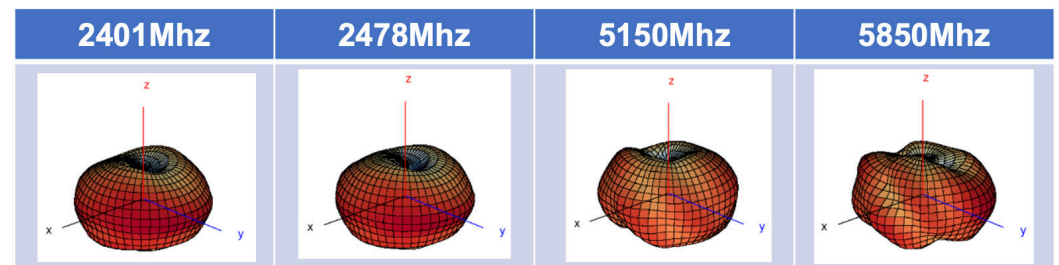
Gain and Efficiency

Frequency [Mhz]	2.4Ghz Band			5Ghz Band						
	2401	2442	2478	5150	5220	5500	5750	5805	5825	5855
Efficiency [%]	79.3	84.8	81.1	63.0	56.9	72.8	69.5	68.6	75.9	85.5
Peak Gain [dBi]	2.34	2.86	2.71	1.50	1.09	2.39	2.41	2.29	2.90	3.50
Impedance	50Ω									
Polarization	Vertical									
Directivity	Omni Directional									

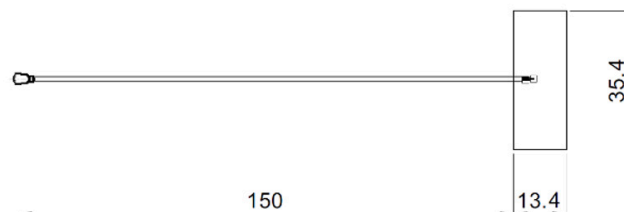
VSWR



Radiation Pattern



Dimension (unit: mm)




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FPCB Antenna

TAEP134

4G LTE/ 5G Sub6 and GNSS L1
Ultra-Broadband FPCB Antenna

INTRODUCTION

The TAEP134 antenna is an omni-directional, FPCB antenna for any 4G/5G devices. TAEP134 can cover entire 4G/5G bands from 617MHz to 5GHz plus GNSS L1 band. This product particularly works fine with the 4G/5G module including Quectel RM520N (Ant 3 port).

APPLICATION

Any wireless device that requires a high efficiency antenna covering entire 4G LTE/5G Sub6 and GNSS L1 frequency bands.

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



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Features and Benefits

- **Ultra-Wideband FPCB Antenna Covering Entire 4G LTE/ 5G Sub 6 and GNSS L1 bands**
- Antenna Size: 136.4 mm x 26.4 mm x 0.5 mm (not including Cable and Connector)
- Connector: WFL (Male) connector with a 150mm coaxial cable
- Operating Frequency Bands
 - 617~960MHz
 - 1432~2690MHz
 - 3300~5925MHz
 - 4000~5000MHz
- GNSS L1: 1575.42 MHz
- High efficiency up to 93%
- Peak Gain: -2.7~4.5dBi
- RoHS Compliance

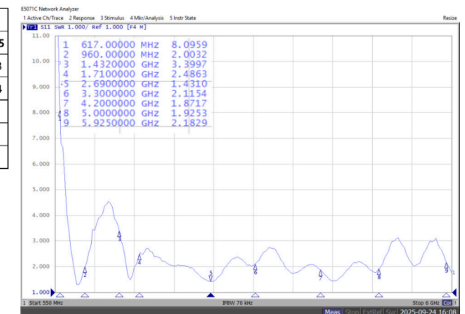


Performance

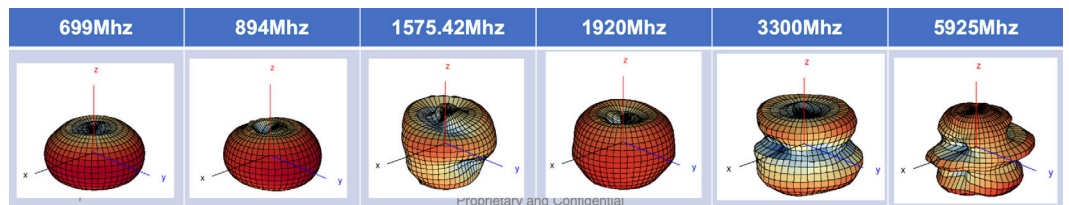
Gain and Efficiency

Frequency [MHz]	Low Band				L1	Mid/High Band				Ultra High Band				LAA		
	617	746	824	960	1575	1432	1710	2170	2496	2690	3300	3800	4200	5000	5150	5925
Efficiency [%]	31.0	76.8	93.0	87.1	67.7	39.0	54.9	72.6	78.4	73.1	71.8	67.3	66.4	43.8	42.1	59.3
Peak Gain [dBi]	-2.70	1.70	2.68	3.39	3.28	0.78	1.31	3.05	4.49	4.36	4.16	3.45	2.85	1.56	1.65	3.04
Impedance	50Ω															
Polarization	Vertical															
Directivity	Omni Directional															

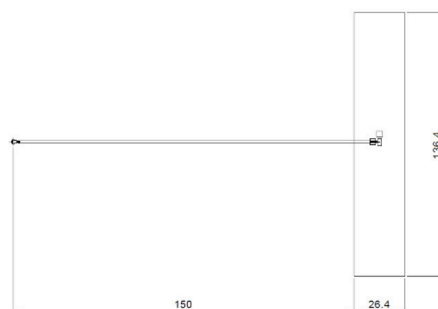
VSWR



Radiation Pattern



Dimension (unit: mm)



FPCB Antenna

TAEP133

4G/5G Broadband FPCB Antenna

INTRODUCTION

The TAEP133 antenna is an omni-directional, FPCB antenna for any 4G/5G devices. TAEP133 can cover entire frequency bands from 1452MHz to 5GHz. This product particularly works fine with the 4G/5G module including Quectel RM520N (Ant 2 port).

APPLICATION

Any wireless device that requires a high efficiency antenna covering entire 4G LTE/5G Sub6 frequency bands.

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

Features and Benefits

- **Ultra-Wideband FPCB Antenna Covering 4G LTE/ 5G Sub 6 Mid & High Bands**
- Antenna Size: 62.4 mm x 26.4 mm x 0.5 mm (not including Cable and Connector)
- Connector: UFL (Male) connector with a 150mm coaxial cable
- Operating Frequency Bands
 - 1452~2690MHz
 - 3300~5000MHz
- High efficiency up to 80%
- Peak Gain: -1.2~3.5dBi
- RoHS Compliance

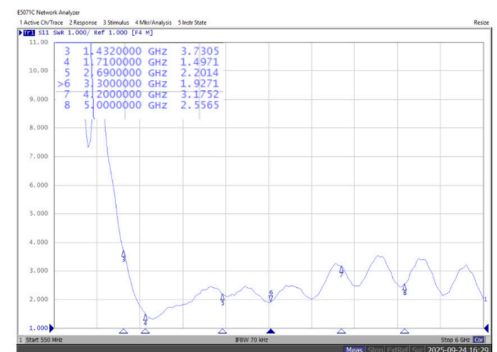


Performance

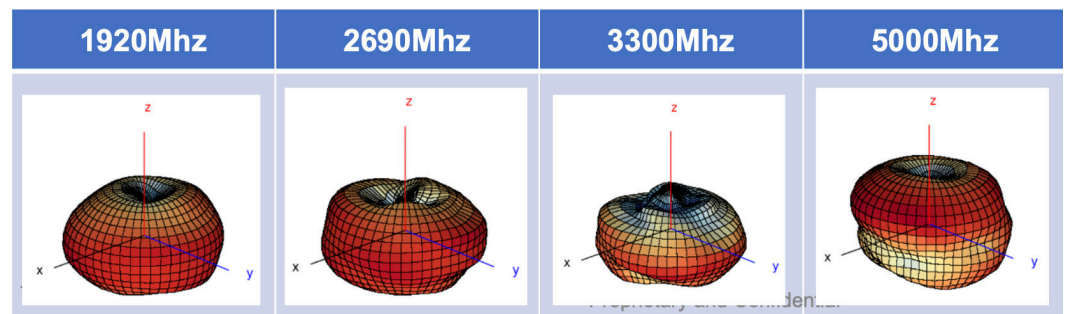
Gain and Efficiency

Frequency [Mhz]	Mid/High Band						Ultra High Band				
	1432	1710	1920	2170	2305	2690	3300	3800	4200	4400	5000
Efficiency [%]	42.6	67.9	78.1	72.5	59.3	67.8	71.9	58.1	46.9	43.2	40.4
Peak Gain [dBi]	-0.84	1.66	2.19	2.01	1.16	2.10	3.43	2.77	1.22	1.07	-1.23
Impedance	50Ω										
Polarization	Vertical										
Directivity	Omni Directional										

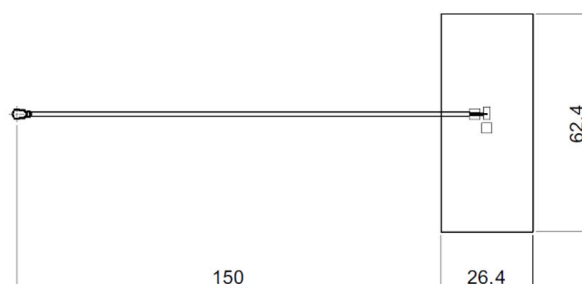
VSWR



Radiation Pattern



Dimension (unit: mm)



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FPCB Antenna

TAEP132

4G/5G & GNSS-L5 Ultra-Broadband FPCB Antenna

INTRODUCTION

The TAEP132 antenna is an omni-directional, FPCB antenna for any 4G/5G devices. TAEP132 can cover entire frequency bands from 1452MHz to 5GHz, and 1176MHz for GNSS L5. This product particularly works fine with the 4G/5G module including Quectel RM520N (Ant 1 port).

APPLICATION

Any wireless device that requires a high efficiency antenna covering entire 4G LTE/5G Sub6 and GNSS L5 frequency bands.

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



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Features and Benefits

- **Ultra-Wideband FPCB Antenna Covering 4G LTE/5G Sub 6 Mid & High Bands plus GNSS L5 band**
- Antenna Size: 83.9 mm x 26.4 mm x 0.5 mm (not including Cable and Connector)
- Connector: WFL (Male) connector with a 150mm coaxial cable
- Operating Frequency Bands
 - 1432~2690MHz
 - 3300~5925MHz
 - GNSS L5: 1176.45 MHz
- High efficiency up to 82%
- Peak Gain: -1.1~2.5dBi
- RoHS Compliance

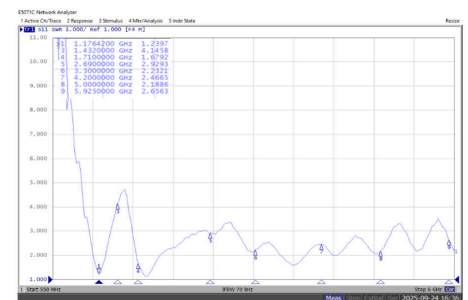


Performance

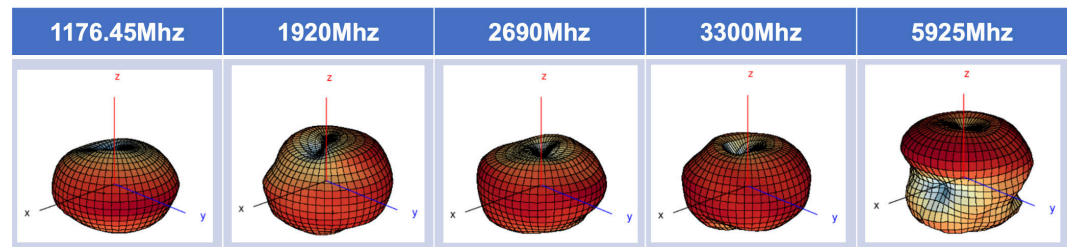
Gain and Efficiency

Frequency [Mhz]	L5		Mid/High Band						Ultra High Band					LAA	
	1176	1432	1710	1920	2170	2496	2690	3300	3800	4200	4400	5000	5150	5925	
Efficiency [%]	77.6	42.1	68.5	72.1	60.9	55.9	60.4	75.0	69.1	58.7	51	43.7	41.1	49.3	
Peak Gain [dBi]	2.71	-1.12	2.18	1.88	0.58	0.78	1.37	2.07	2.53	2.27	2.19	1.22	1.01	0.98	
Impedance	50Ω														
Polarization	Vertical														
Directivity	Omni Directional														

VSWR



Radiation Pattern



Dimension (unit: mm)



FPCB Antenna

TAEP131

4G LTE/5G Ultra-Broadband FPCB Antenna

INTRODUCTION

The TAEP131 antenna is an omni-directional, FPCB antenna for any 4G/5G devices. TAEP131 can cover entire frequency bands from 600MHz to 5GHz. This product particularly works fine with the 4G/5G module including Quectel RM520N (Ant 0 port).

APPLICATION

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

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



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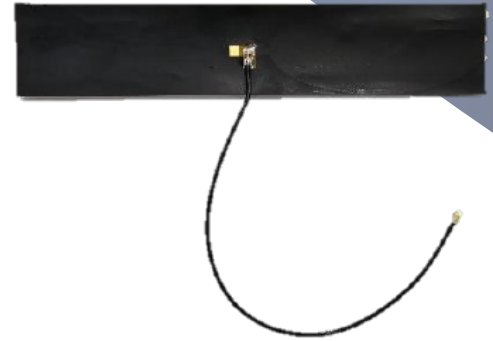
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Features and Benefits

- **Ultra-Wideband FPCB Antenna Covering ALL 4G LTE and 5G Sub 6 Bands**
- Antenna Size: 136.4 mm x 26.4 mm x 0.5 mm (not including Cable and Connector)
- Connector: WFL (Male) with a 150mm coaxial cable
- Operating Frequency Bands
 - 617~960MHz
 - 1432~2690MHz
 - 3300~5000MHz
- High efficiency up to 92%
- Peak Gain: -3.0~4.8dBi
- RoHS Compliance



Performance

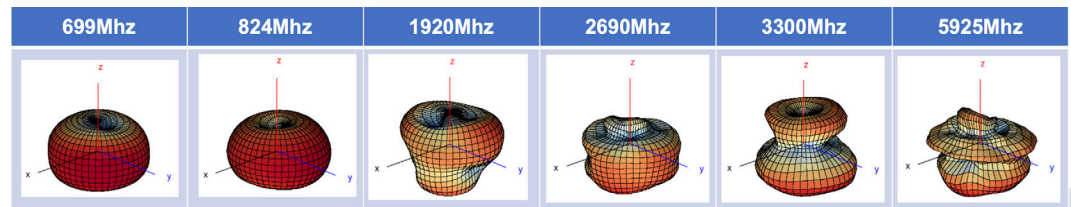
Gain and Efficiency

Frequency [MHz]	Low Band				Mid/High Band						Ultra High Band					
	617	746	824	960	1432	1710	1920	2170	2360	2690	3300	3800	4200	4400	5000	
Efficiency [%]	30.6	80.5	92.0	83.0	34.9	50.7	54.4	71.6	60.2	77.2	67.5	58.7	60.3	53.8	41.7	
Peak Gain [dBi]	-3.03	1.82	3.01	3.57	-0.58	1.30	2.27	3.04	2.53	4.81	4.66	4.09	3.69	3.79	3.00	
Impedance	50Ω															
Polarization	Vertical															
Directivity	Omni Directional															

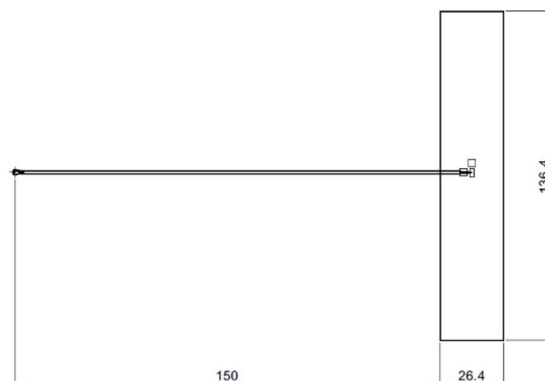
VSWR



Radiation Pattern



Dimension (unit: mm)



Embedded (Health Monitoring) Antenna

MAEP103 Ultra Small NFC Antenna

INTRODUCTION

MAEP103 is an ultra-small NFC antenna incorporating SkyMirr's patented MulCAT® technology. It is suitable for cutting-edge devices such as biomedical micro-devices or wearable devices.

APPLICATION

- Mobile Micro Wearable devices (Smart watches, Earphones)
- Smart phone. Payment terminals
- Medical devices Human and animal implants (glass tubes), (Hearing aids)

Features and Benefits

- **Ferrite Core**
- **MulCAT® Technology Maximizes Magnetic Fields Easily Assembles to Device (Standard SMD device)**
- **Excellent Performance in Mobile, Medical Device and other IoT Wearable Devices**
- Antenna Size : 7.85 x 1.34 x 1.29mm
- Connector : Direct soldering on PCB (SMD)
- Operation Frequency Band
 - 13.56Mhz (NFC)
- RoHS Compliance

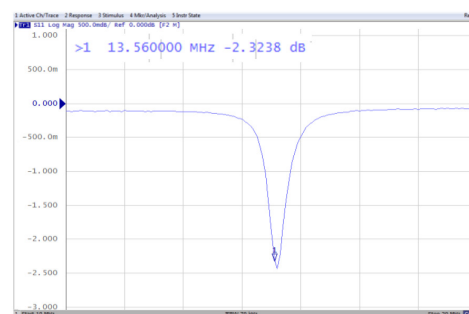


Performance

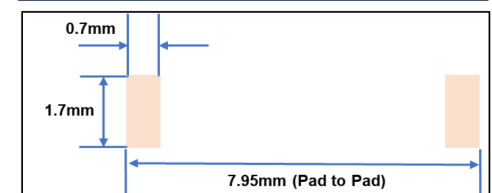
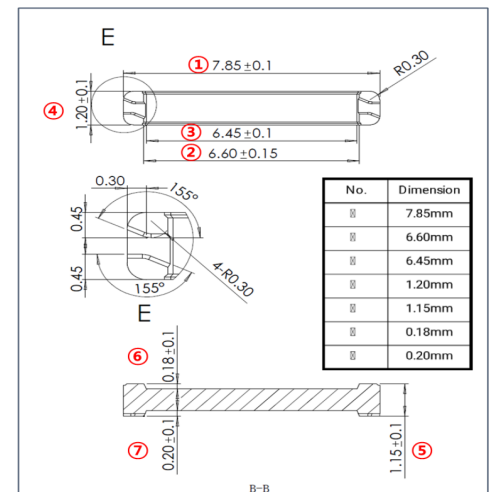
Specifications

Recognition distance	Inductance(uH)	DCR max.(ohm)
26mm	TBD	0.2 Ω
SRF(MHz)	Q value	Matching Value
TBD	TBD	TBD

VSWR



Dimension (unit: mm)



Recommended Land Pattern



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INTRODUCTION

The **SkyMirr TAMP156 WiFi Directional Antenna** delivers high-gain, high-efficiency performance across the 2.4 GHz, 5 GHz, and 6 GHz WiFi bands. With efficiency up to **77%** and peak gain ranging from **5.9 to 8.1 dBi**, it provides focused, reliable signal delivery where standard antennas fall short. Its directional beam improves throughput, reduces interference, and extends usable range—ideal for environments that demand stable and targeted RF performance.

APPLICATIONS

- **Indoor coverage enhancement** for offices, homes, and commercial buildings
- **Warehouse and industrial connectivity**, delivering focused RF along aisles or long corridors
- **Point-to-point WiFi links** requiring directional precision
- **WiFi 6 / WiFi 7 access points** needing stronger, targeted performance
- **CPEs, repeaters, and IoT gateways** that benefit from high-gain, triple-band support



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Features and Benefits

- **External directional Antenna with Hinge Covering**
- WiFi 2.4/5.2/6 GHz Triple Bands
 - 2400~2500MHz
 - 5100~5900MHz
 - 5925~7125MHz
- High Efficiency up to 77%
- Peak Gain: 5.9-8.1 dBi



Performance

Electrical

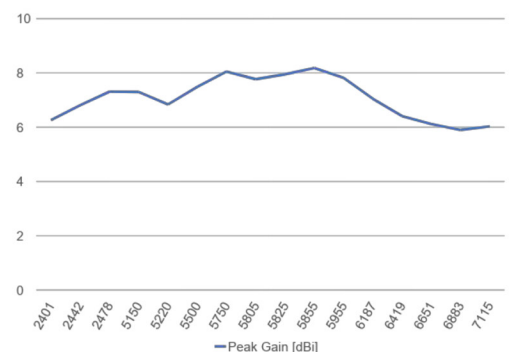
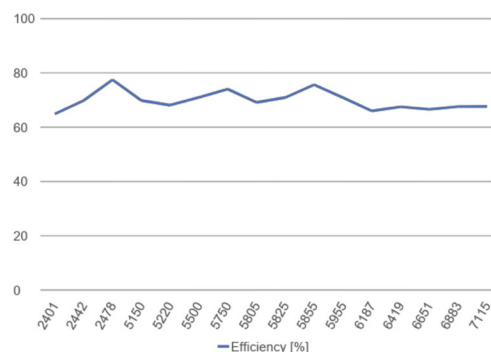
Frequency Range	2400-2500 MHz	5150-5850 MHz	5945-7125 MHz
Gain (Peak)	6.8 dBi ± 0.6 dB	7.4 dBi ± 0.6 dB	6.5 dBi ± 0.6 dB
VSWR	≤2.0	≤2.5	≤2.5
Efficiency (Peak)	77%	75%	67%
Input Imped.	50Ω		
Antenna Type	Directional		
Power Rating	50 W		

Mechanical (Antenna)

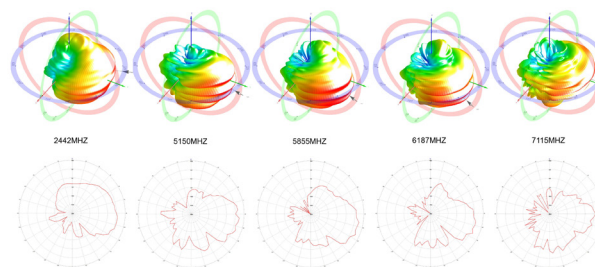
Antenna	Radome Color	Black
	Dimensions (w x h x d)	75.52 x 133.58 x 25.26 mm
Connector	SMA-Male	
Weight	60g	

Peak Gain/Efficiency

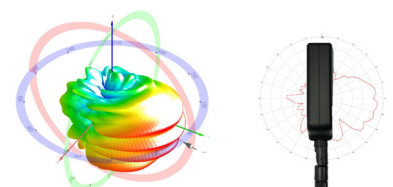
Frequency [MHz]	2401	2442	2478	5150	5220	5500	5750	5805	5825	5855	5955	6187	6419	6651	6883	7115
Efficiency [%]	64.89	69.86	77.51	69.86	68.13	70.98	74.06	69.15	70.96	75.65	70.91	66	67.53	66.59	67.6	67.65
Peak Gain [dBi]	6.26	6.81	7.31	7.3	6.84	7.49	8.05	7.77	7.95	8.18	7.82	7.05	6.41	6.12	5.9	6.03



Radiation Pattern_ATN1



Antenna Radiation Direction



Custom

Customized Antenna

INTRODUCTION

SkyMirr provides antenna customization service from antenna design/ sample delivery/ test/measurement/ pilot production to Mass production.

SkyMirr customized antennas can perform best in the given form factor and environment.

APPLICATION

Any wireless/IoT device in any frequency band.



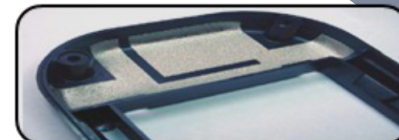
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Features and Benefits

- **Custom Designed Antenna for Any Wireless Device**
- **Antenna Size:** Antennas can be designed in the form factor provided by the client.
- **Connector:** Any type including SMA, Spring, Pogo pin, Soldering, etc.
- **Any Operation Frequency Band:**
 - 4G LTE/ 5G Sub6
 - WiFi 5,6,7
 - GPS/GNSS
 - BT
 - NFC
 - 13.56Mhz (NFC)
- **Best Performance** in the given environment
- **Short Design and Sample Delivery Leadtime**



Customized Antenna Type

Stamped	Bare		Cabled Antennas	Printed on PCB	
	On Carrier			WiFi & WLAN	
Flex PCB	On Carrier		Retractable	DMV	
			NFC	FPC or Stamped Coil on Ferrite	
	On Housing	 GPS Antenna Bluetooth Antenna Diversity Antenna Main Antenna	Arrays	Smart Grid	
3D Plated	Double Injection Molding		Modules	Passive Modules (Speakers, Microphones, Sensors, etc)	
	LDS	 LDS on Handset Housing		Active Modules (Switch Tuning, RF FE, etc)	



ABOUT SKYMIRR...

AI-DESIGNED WIRELESS IoT TECHNOLOGY

We provide revolutionary RF Technology and products for Wireless Terrestrial/Satellite Communication and Wireless Healthcare/Biomedical Applications.

Headquartered in Satellite Beach, Florida, SkyMirr, Inc. is the worldwide leader in designing, developing, manufacturing, and commercially shipping high performance RF/antenna/Wireless device solutions into wireless markets and applications where connectivity, low profile, and interference mitigation are paramount. With revolutionary product designs in wireless healthcare/biomedical, terrestrial communications, and satellite communications markets, SkyMirr is pushing the boundary on some of the most challenging wireless connectivity problems in developing markets today.

R&D Capability In Place

- Initial R&D and product development capability is ready.
- Location: Incheon, Korea
- Equipment:

Full 3D anechoic test chamber

- Network analyzers
- Spectrum analyzers
- Multi-meters and others
- Work benches for prototyping



Core Competency With MuLCAT®: Making Higher-Performing Antennas Smaller Than Previously Possible

SkyMirr's extensive knowledge and lengthy experience in electromagnetic theory design has resulted in its patent-pending Multi-layer Coupling Controlled Antenna Technology (MuLCAT®). MuLCAT is specifically designed and is especially effective in applications where multiple antenna elements are co-located and confined in a small space, normally resulting in reduced performance due to mutual interference. But with MuLCAT, this mutual coupling is now combined in a constructive way, improving performance such as frequency bandwidth, radiation efficiency, gain, and recognition distance significantly in a smaller confined space.

Mass Production-Locked And Loaded

- Contract Mfgs IN PLACE in Vietnam and Korea
- Location: Bac Ninh, Vietnam / Incheon, Korea
- Entire SCM is ready including:
 - Plastic molding/tooling
 - Metal stamping
 - PCB
 - Cable/connectors
 - Final assembly and test
- Guaranteed low cost – efficient, well-trained line workers plus effective local supply chains
- High Quality – 100% inspection for all products that will be shipped
- Training already completed
- Every product we ship is guaranteed
- RMA system to react to any potential quality issue in customers ASAP

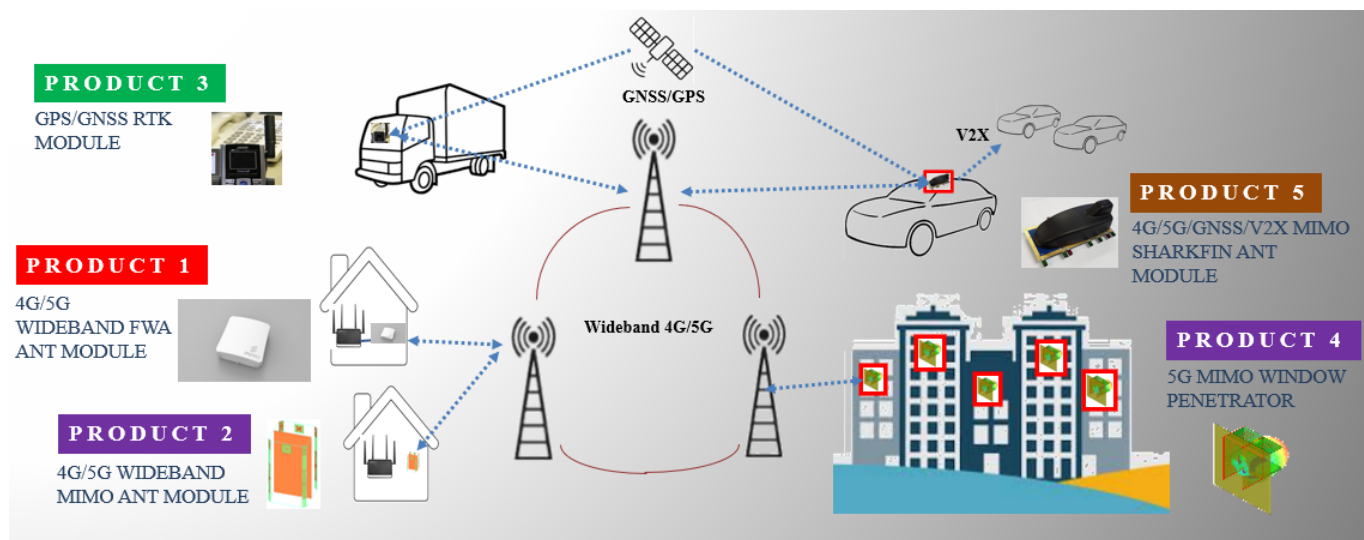
DESIGN SERVICES

If you would like SkyMirr to look at creating a customized antenna solution for your product using its proprietary MULCAT(r) technology, please contact us for a quotation.

PRODUCTS AND APPLICATIONS

Skymirr Broadband Access Products And Applications

Several broadband access products for various environments are in development to insure continuing revenue growth



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