



SKYMIIRR

BE AMAZED

2026

ANTENNA CATALOG

skymirr.com

● SPOTLIGHT PRODUCTS

TAMP 141: 4G LTE/5G Ultra Broadband Omni Antenna	3
TAMP154: High Gain 4G/5G MIMO Directional Antenna	4

● Cellular 3G/4G/5G Antennas and Modules

TAMP114: 4G LTE/5G Wideband Omni Antenna	5
TAMP 141: 4G LTE/5G Ultra Broadband Omni Antenna	6
TAMP125: 4G LTE/5G Broadband MIMO Antenna Module	7
TAMP154: High Gain 4G/5G MIMO Directional Antenna	9

● WiFi Antenna

TAEP121: WiFi Dual band Embedded Antenna	11
TAMP118: WiFi 6e/7 External Antenna	12

● FPCB Antenna

TAEP135: WiFi 6e/7 Triple Band FPCB Antenna	13
TAEP134: 4G LTE/5G Sub6 and GNSS L1 Ultra-Broadband FPCB Antenna	14
TAEP133: 44G/5G Broadband FPCB Antenna	15
TAEP132: 4G/5G & GNSS-L5 Ultra-Broadband FPCB Antenna	16
TAEP 131: 4G LTE/5G Ultra Broadband FPCB Antenna	17

● Embedded (Monitoring) Antenna

MAEP103: Ultra Small NFC Antenna	18
--	----

● WiFi Antennas and Modules

TAMP156 Wifi Directional Antenna	19
--	----

● Customized Antenna

Customized Antenna	20
--------------------------	----

About SkyMirr	21
---------------------	----

SPOTLIGHT PRODUCTS

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,



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

TAMP141

Cellular Antenna

4G LTE / 5G Ultra Broadband Omni Antenna

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

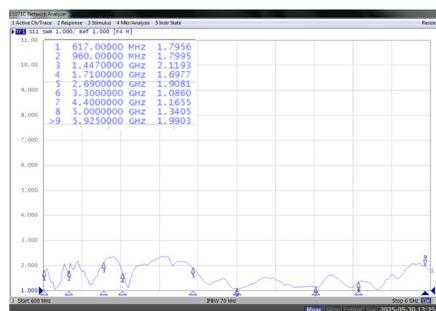


Performance

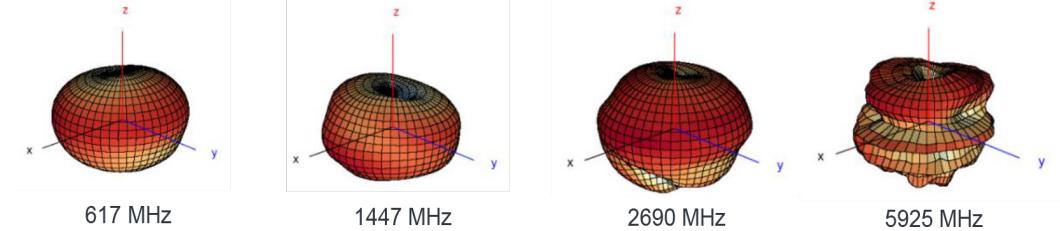
Gain and Efficiency

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											

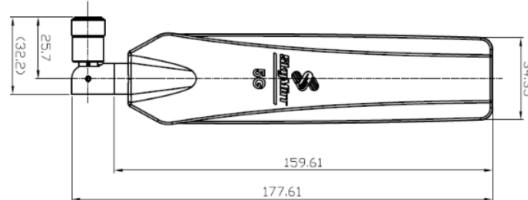
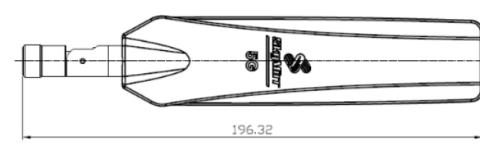
VSWR



Radiation Pattern



Dimension (unit: mm)



SPOTLIGHT PRODUCTS

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



SKYmirr
BE AMAZED

www.skymirr.com

US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

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		

RF Cable Attenuation (per 3m)

	600MHz	0.9 dB
900MHz	1.1 dB	
1700MHz	1.5 dB	
2400MHz	1.8 dB	
3300MHz	2.2 dB	
4000MHz	2.5 dB	
5000MHz	2.7 dB	
6000MHz	3.0 dB	

Mechanical (Antenna)

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

VSWR



Peak Gain/Efficiency

	Frequency [MHz]	617	699	746	824	894	960	1447	1463	1496	1511									
ANT 1	Efficiency [%]	60.42	71.6	59.57	63.42	92.81	82.74	79.1	78.11	79.25	75.37									
ANT 1	Peak Gain [dBi]	5.24	6.2	5.13	5.7	6.16	5.92	6.67	6.66	6.54	6.18									
ANT 2	Frequency [MHz]	1710	1850	1950	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	4400	5000	5150	5925	
ANT 2	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		
ANT 2	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 3	Frequency [MHz]	1710	1850	1950	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	4400	5000	5150	5925	
ANT 3	Efficiency [%]	70.94	67.47	73.06	69.2	82.54	81.29	73.86	70.96	71.08	66.55									
ANT 3	Peak Gain [dBi]	4.6	5.44	5.29	5.87	6.71	5.82	6.52	6.38	6.23	6.45									
ANT 4	Frequency [MHz]	1710	1850	1920	2170	2305	2360	2496	2690	3300	3400	3600	3800	4200	4400	4400	5000	5150	5925	
ANT 4	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		
ANT 4	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		

Cellular 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.



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

TAMP114

4G LTE / 5G Wideband Omni Antenna

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

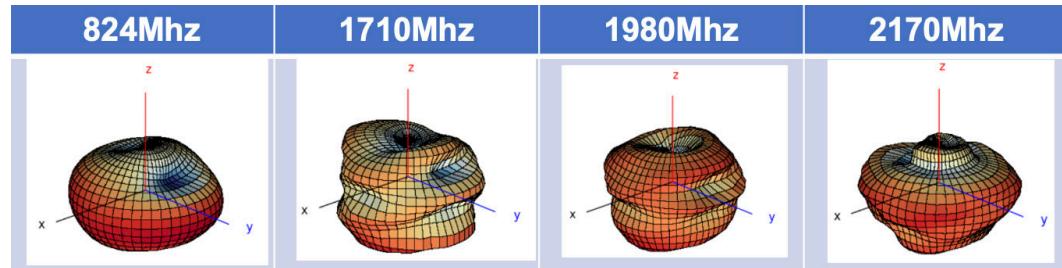
Gain and Efficiency

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										
50Ω										
Polarization										
Vertical										
Directivity										
Omni Directional										

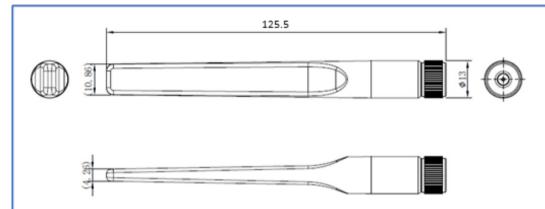
VSWR



Radiation Pattern



Dimension (unit: mm)



Cellular 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,



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

TAMP141

4G LTE / 5G Ultra Broadband Omni Antenna

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

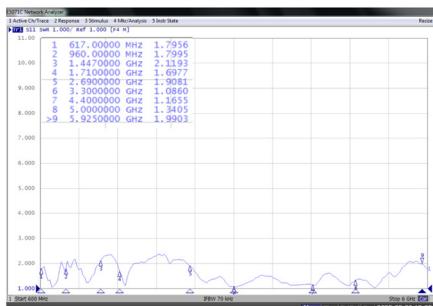


Performance

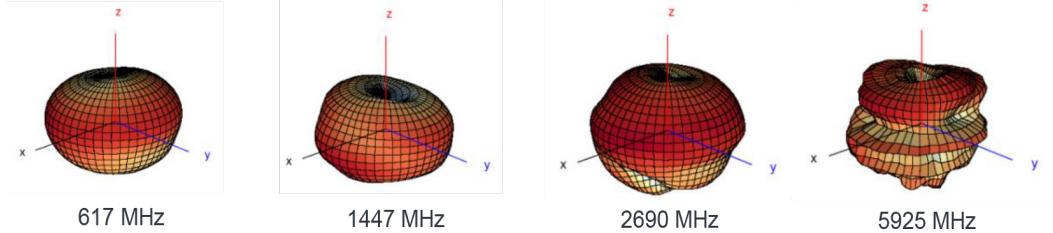
Gain and Efficiency

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											

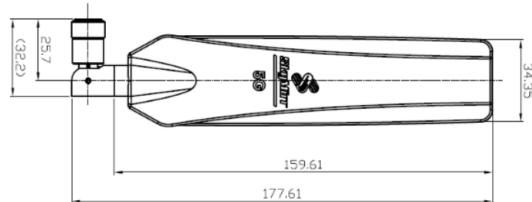
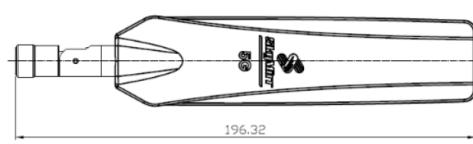
VSWR



Radiation Pattern



Dimension (unit: mm)



Cellular Antenna

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.



SKYMIIRR
BE AMAZED
www.skymirr.com

us

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

TAMP125

4G LTE/5G Broadband MIMO Antenna Module

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	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
	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
	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	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
	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
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
	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
	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
	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
	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

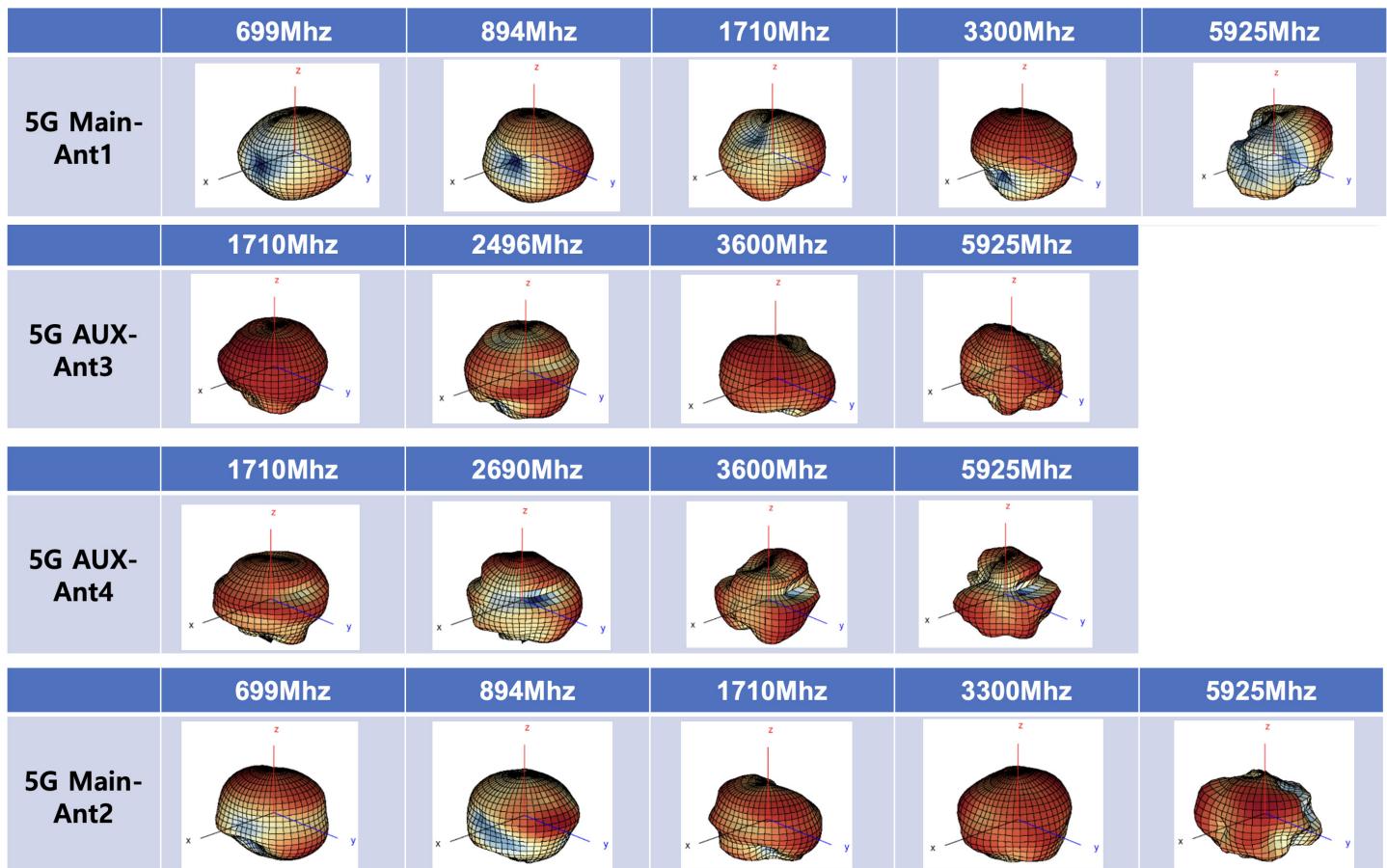
SWR



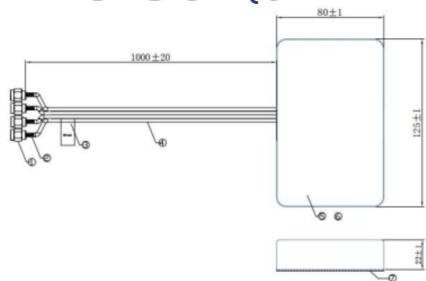
Isolation between ports



Performance (continued)



Dimension (unit: mm)



RF Cable length: 1.5m



Cellular 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

TAMP154

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		
				RF Cable Attenuation (per 3m)	
				600MHz	0.9 dB

Mechanical (Antenna)

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

VSWR



Peak Gain/Efficiency

	Frequency [MHz]	617	699	746	824	894	960	1447	1463	1496	1511	
ANT 1	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	
	Frequency [MHz]	1710	1850	1950	2170	2305	2360	2496	2690	3300	3400	3600
ANT 1	Efficiency [%]	79.83	81.45	70.87	75.44	81.31	81.86	86.11	78.68	60.86	61.86	73.54
	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
	Frequency [MHz]	3800	4200	4400	4400	5000	5150	5925				
ANT 2	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	
	Frequency [MHz]	5150	5925									
ANT 2	Efficiency [%]	70.97	67.47	54.9	73.95	79.04	79.64	81.45	66.14	51.45	57.47	
	Peak Gain [dBi]	9.22	8.45	7.84	8.75	8.14	8.21	9.18	7.83	7.45	7.64	
	Frequency [MHz]	76.38	83.38	76.57	67.65	69.35	71.77	71.05	83.14	81.88	70.63	70.76
ANT 3	Efficiency [%]	70.8	75.08	73	86.86	73.39	76.38	83.38	76.57	67.65	69.35	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	7.75
	Frequency [MHz]	75.28	76.72	80.3	78.47	61.29	65.96	59.68				
ANT 4	Efficiency [%]	65.36	80.93	72.04	82.99	72.16	73.65	78.54	77.45	70.56	72.16	5150
	Peak Gain [dBi]	6.65	7.3	7.05	8.68	7.57	7.75	8.2	7.41	7.19	6.89	5925



SKYMIIRR
BE AMAZED

www.skymirr.com

US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

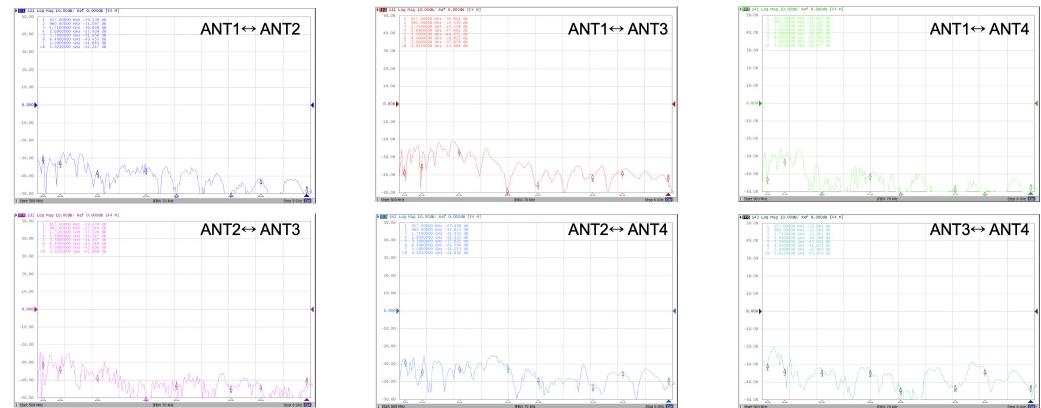
Cellular Antenna

TAMP154

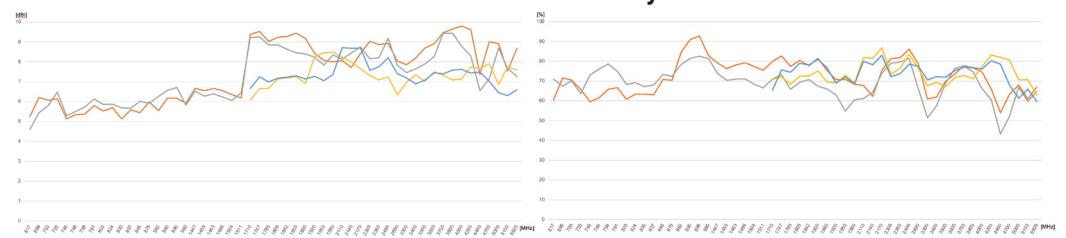
High Gain 4G/5G MIMO Directional Antenna

Performance (continued)

Isolation

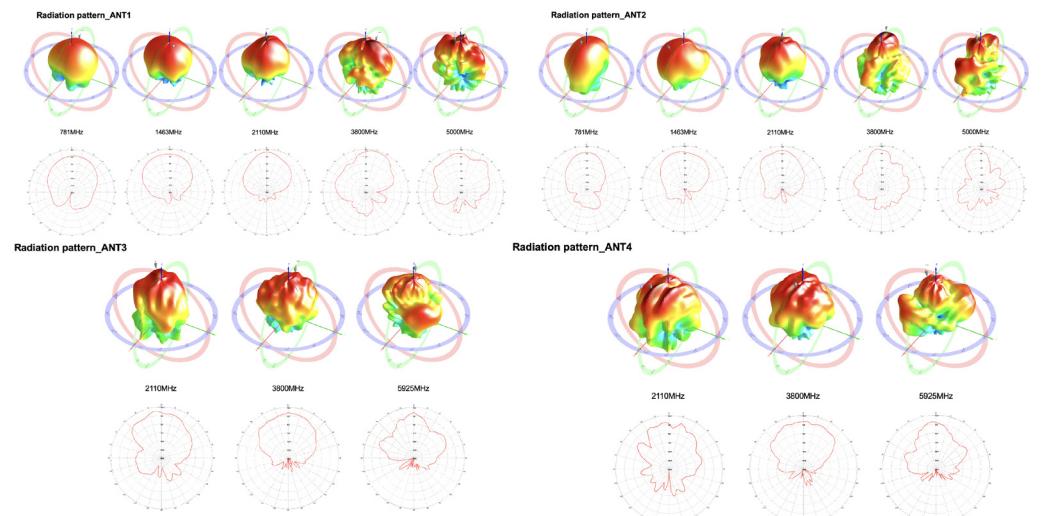


Peak Gain

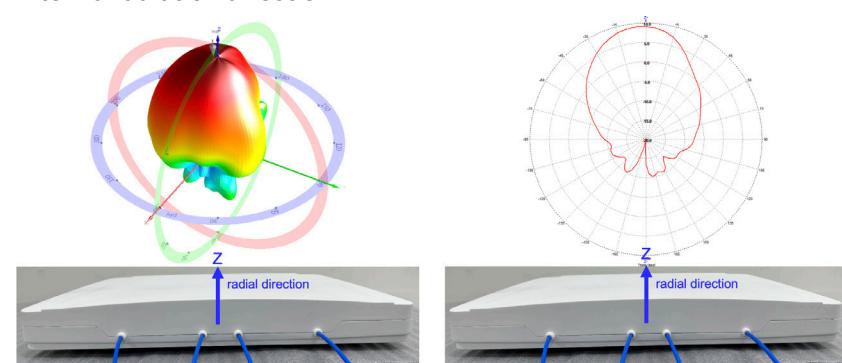


Efficiency

Radiation Pattern



Antenna radiation direction



WiFi 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.



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

TAEP121

Wi-Fi 6e/7 Embedded Antenna

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

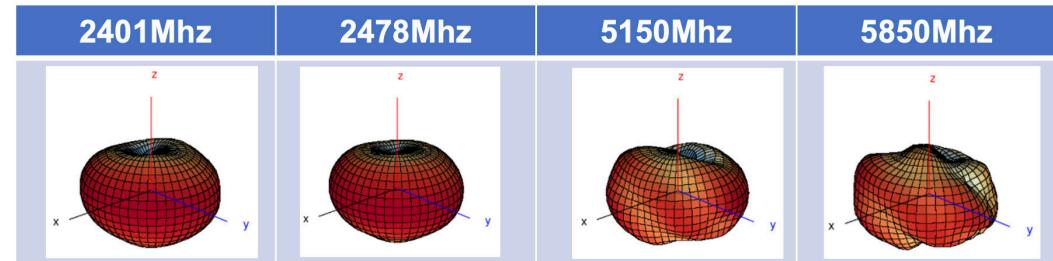
Gain and Efficiency

Frequency [Mhz]	2.4Ghz Band			5Ghz Band						
	2401	2442	2478	5150	5220	5500	5750	5805	5825	5855
Efficiency [%]	78.0	85.0	81.5	55.6	56.9	71.0	80.2	70.5	71.2	78.3
Peak Gain [dBi]	1.51	1.80	1.60	1.69	1.39	3.38	3.77	3.29	3.27	3.66
Impedance										
50Ω										
Polarization										
Vertical										
Directive										
Omni Directional										

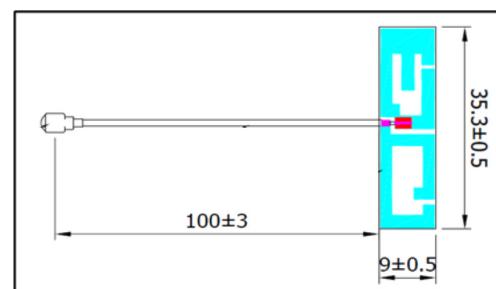
VSWR



Radiation Pattern



Dimension (unit: mm)



WiFi 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.



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

TAMP118

Wi-Fi 6e/7 External Antenna



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

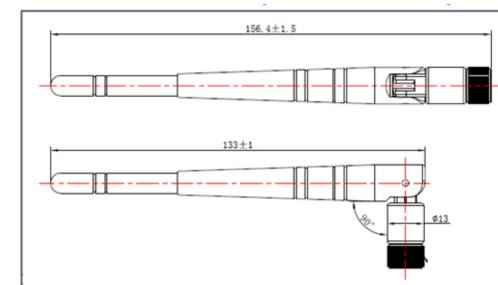
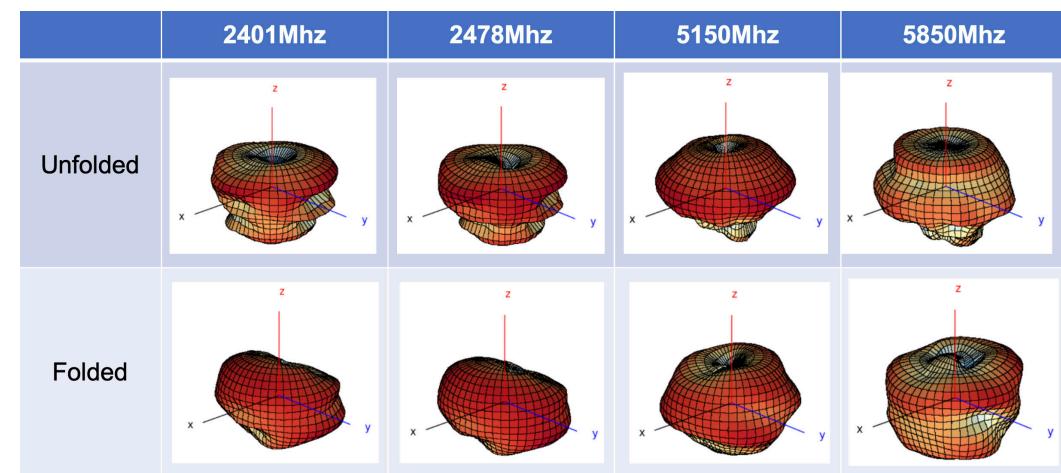
	Frequency [Mhz]	2.4Ghz Band			5Ghz Band						
		2401	2442	2478	5150	5220	5500	5750	5805	5825	5855
Unfolded	Efficiency [%]	68.2	72.7	74.3	63.0	64.9	66.8	77.0	77.7	73.9	77.2
	Peak Gain [dBi]	2.70	3.05	3.26	1.88	2.25	3.15	2.78	2.35	2.42	2.70
Folded	Efficiency [%]	79.8	88.2	85.0	67.2	66.4	81.5	90.3	85.4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

VSWR



Unfolded
Folded

Radiation Pattern



Dimension (unit: mm)

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.



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

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

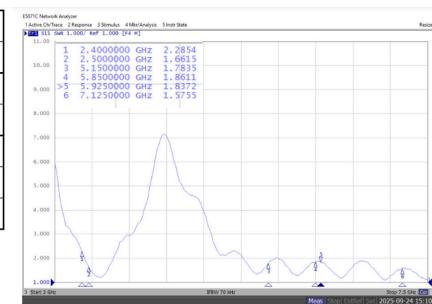


Performance

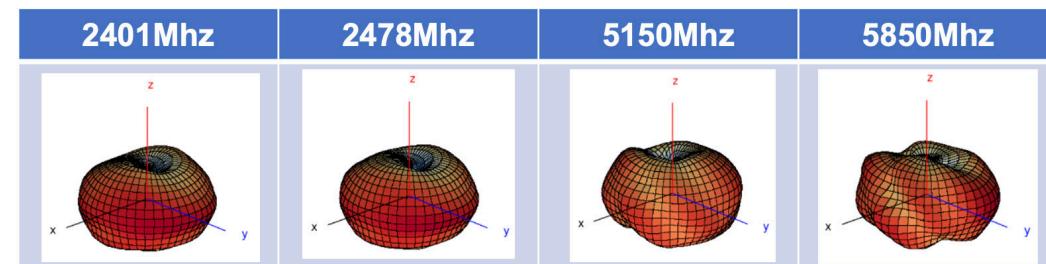
Gain and Efficiency

VSWR

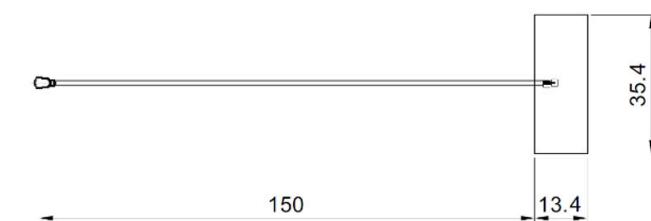
Frequency [MHz]	2.4Ghz Band			5Ghz Band						
	2401	2442	2478	5150	5220	5500	5750	5805	5825	5855
Efficiency [%]	79.3	84.8	81.1	63.0	56.9	72.8	69.5	68.6	75.9	85.5
Peak Gain [dBi]	2.34	2.86	2.71	1.50	1.09	2.39	2.41	2.29	2.90	3.50
Impedance	50Ω									
Polarization	Vertical									
Directivity	Omni Directional									



Radiation Pattern



Dimension (unit: mm)



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.



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

TAEP134

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

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

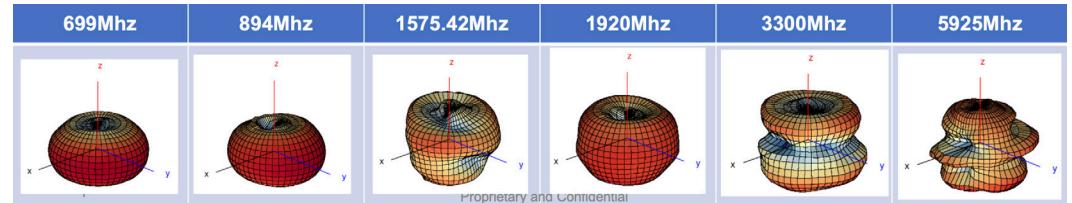
Gain and Efficiency

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)



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.



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

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

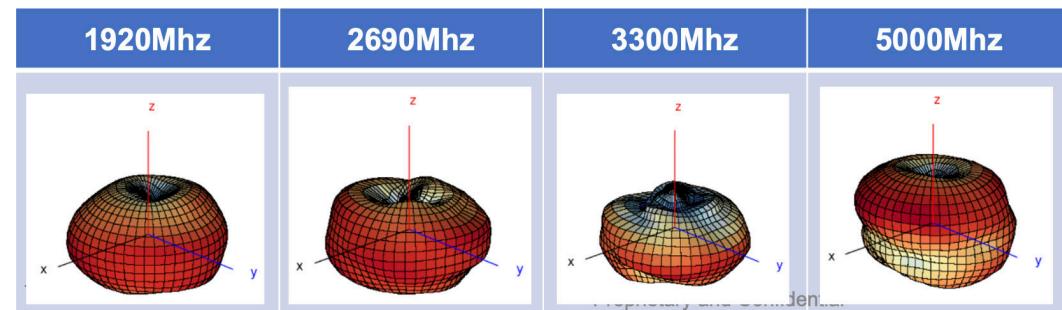
Gain and Efficiency

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											
Polarization											
Directivity											
Vertical											
Omni Directional											

VSWR



Radiation Pattern



Dimension (unit: mm)



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.



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

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

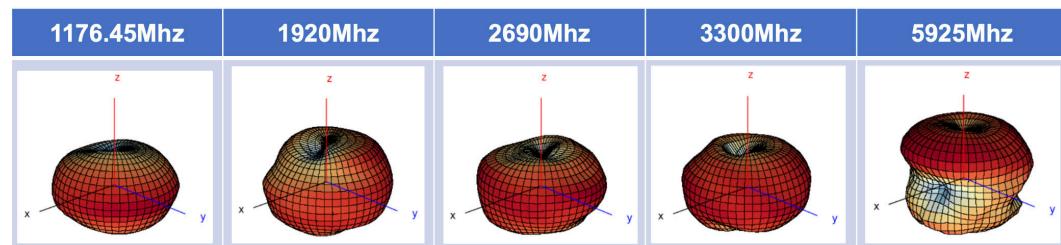
Frequency [MHz]	LS	Mid/High Band						Ultra High Band				LAA		
		1176	1432	1710	1920	2170	2496	2690	3300	3800	4200	4400	5000	5150
Efficiency [%]	77.6	42.1	68.5	72.1	60.9	55.9	60.4	75.0	69.1	58.7	51	43.7	41.1	49.3
Peak Gain [dBi]	2.71	-1.12	2.18	1.88	0.58	0.78	1.37	2.07	2.53	2.27	2.19	1.22	1.01	0.98
Impedance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



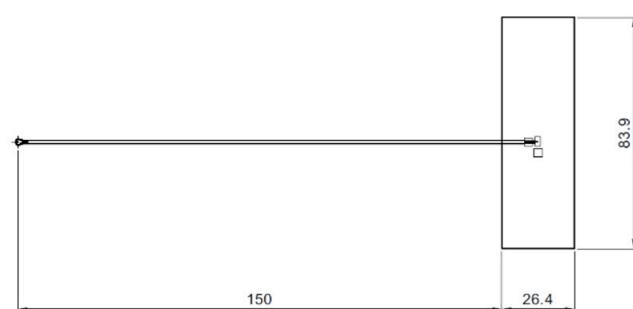
VSWR



Radiation Pattern



Dimension (unit: mm)



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.



SKYMIIRR
BE AMAZED
www.skymirr.com

US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

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

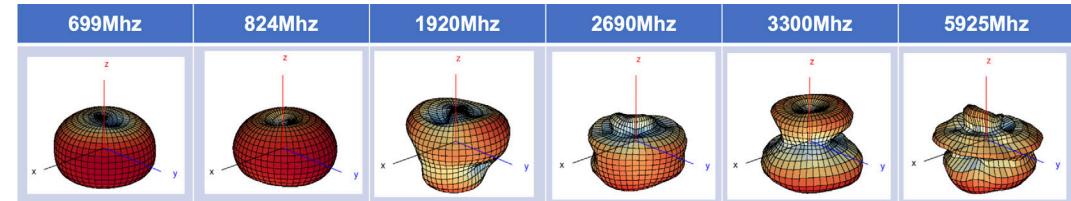
Gain and Efficiency

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 (%)	30.8	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	-0.56	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															

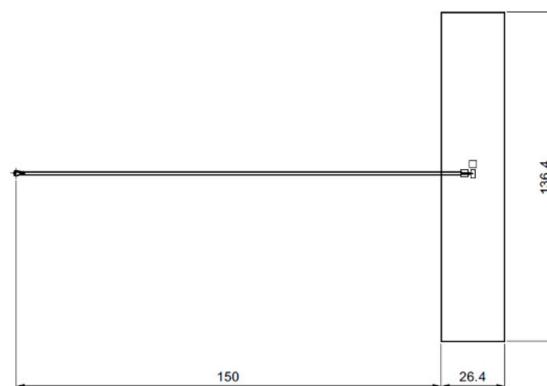
VSWR



Radiation Pattern



Dimension (unit: mm)



Embedded (Health Monitoring) Antenna

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)

MAEP103

Ultra Small NFC Antenna

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

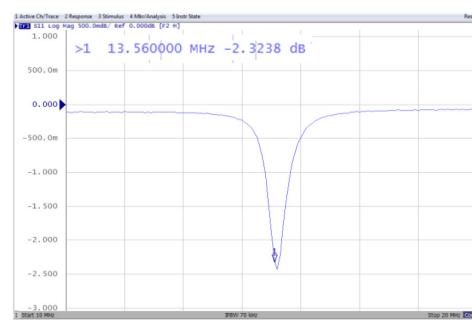


Performance

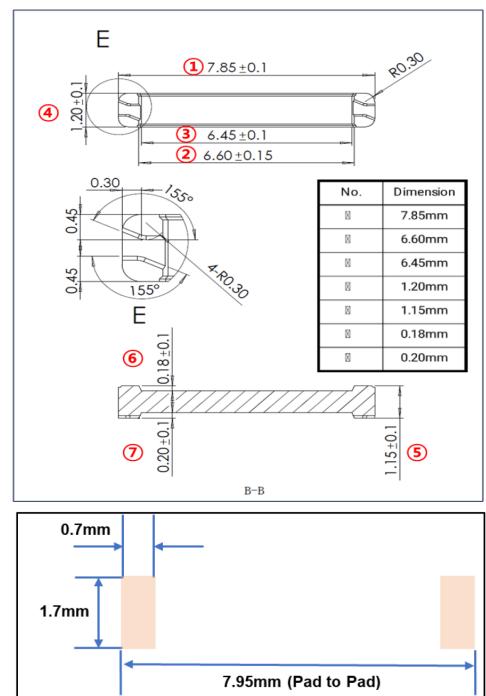
Specifications

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



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

WiFi 6/7 Antennas and Modules

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



US

+1-321-393-1039
sales@skymirr.com

KR

carl.lee@skymirr.com

TW

christin.lin@skymirr.com

TAMP156

WiFi Directional Antenna

Features and Benefits

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

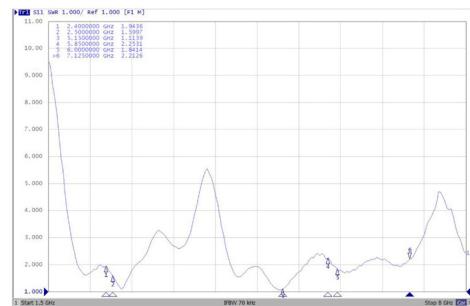


Performance

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		

VSWR

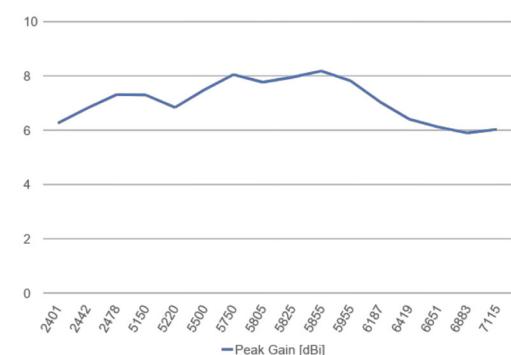
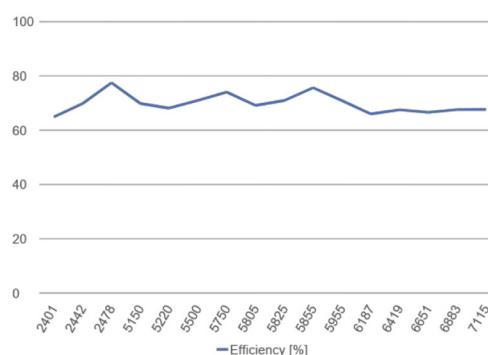


Mechanical (Antenna)

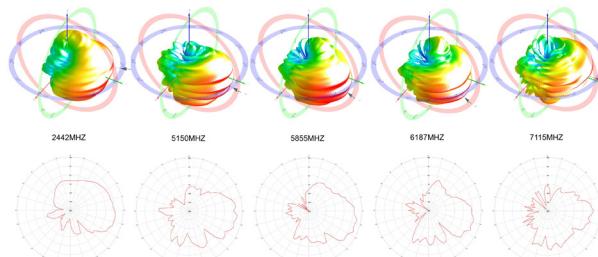
Antenna	Radome Color	Black
	Dimensions (w x h x d)	75.52 x 133.58 x 25.26 mm
Connector		SMA-Male
Weight		60g

Peak Gain/Efficiency

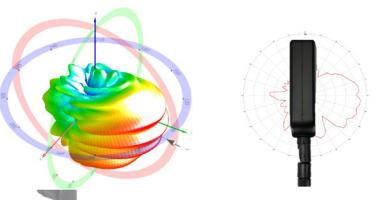
Frequency [MHz]	2401	2442	2478	5150	5220	5500	5750	5805	5825	5855	5955	6187	6419	6651	6883	7115
Efficiency [%]	64.89	69.86	77.51	69.86	68.13	70.98	74.06	69.15	70.96	75.65	70.91	66	67.53	66.59	67.6	67.65
Peak Gain [dBi]	6.26	6.81	7.31	7.3	6.84	7.49	8.05	7.77	7.95	8.18	7.82	7.05	6.41	6.12	5.9	6.03



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.



US

+1-321-393-1039
sales@skymirr.com

KR

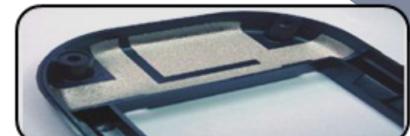
carl.lee@skymirr.com

TW

christin.lin@skymirr.com

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	
3D Plated	On Housing		Arrays	Smart Grid	
3D Plated	LDS		Modules	Passive Modules (Speakers, Microphones, Sensors, etc)	
				Active Modules (Switch Tuning, RF FE, etc)	

ABOUT SKYMIIRR...

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

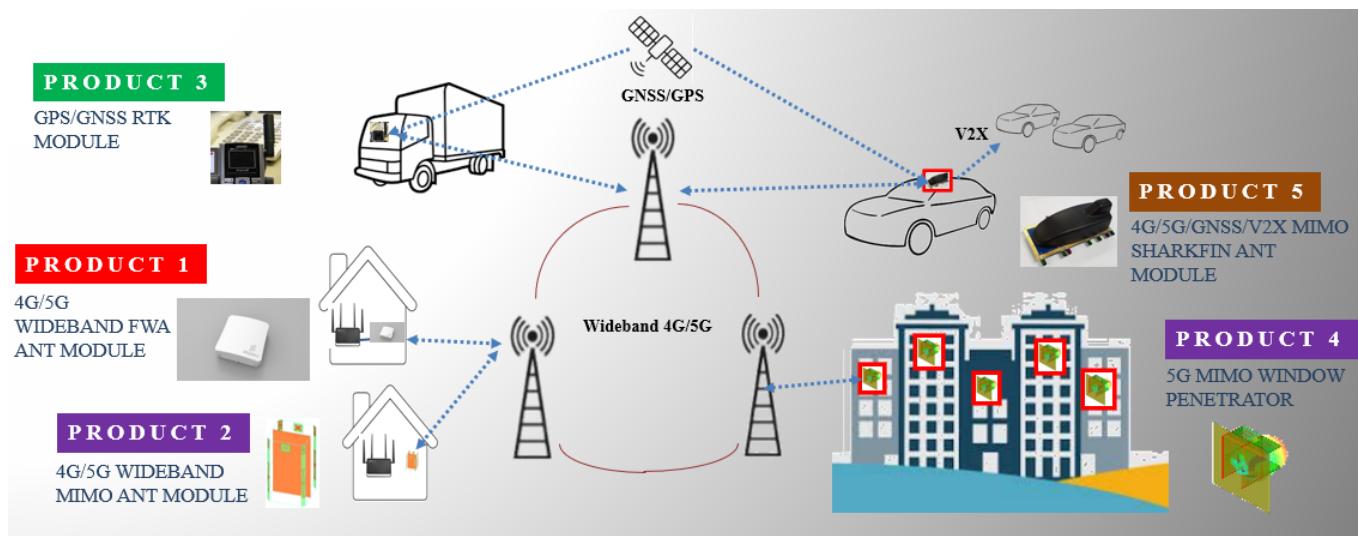
DESIGN SERVICES

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



CONTACT US:

321-393-1039
930 S. Harbor City Blvd
Suite 503
Melbourne, FL 32901

sales@skymirr.com

www.skymirr.com



SKYMIIRR

BE AMAZED

321-393-1039

930 S. Harbor City Blvd
Suite 503
Melbourne, FL 32901

sales@skymirr.com

www.skymirr.com