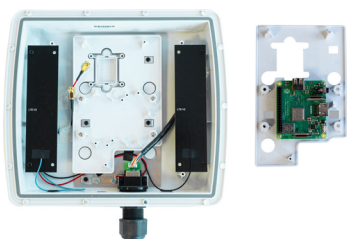


Raspberry Pi Compute Module And Development Kit

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**RoHS
Compliant**



Applications

- IP67/rated
- Robust
- Wide Temp. Range

Features

Embedded Antenna:

- 2x Multi-band 4G/LTE embedded antenna
- 1x Dual-band Wi-Fi embedded antenna
- Antenna Interface : 2 x SMA, 1 x RPSMA.

Outdoor Enclosure:

- Material : High impact, UV resistant enclosure
- IP67 / NEMA6 water and dustproof
- Power: Interchangeable cable gland / PoE -RJ45 Cat5e gland (excluding ethernet cable)
- Temperature Range: -20°C to +70°C
- Humidity: 95% @ 55°C
- Gore® External Temperature Vent
- Weight: 860g (not including Router)
- Quick Slide mounting bracket (fixed/pole, vertical/horizontal pole) SUS304 stainless steel

Raspberry Pi Internal Mounting Board

Compatible with:	+ compute
Raspberry Pi Pico	modules:
Raspberry Pi Zero	Raspberry Pi 3
Raspberry Pi 3	Raspberry Pi 4
Raspberry Pi 4	Raspberry Pi 5
Raspberry Pi 5	Raspberry Pi 5 IO

LTE Antenna Specification

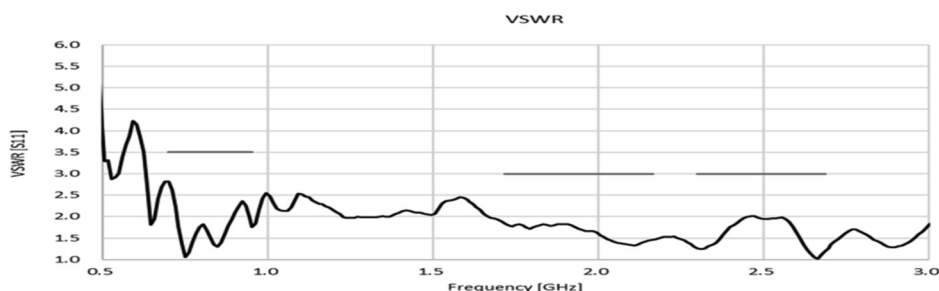
Frequency	: 698-960 / 1710-2170 / 2300-2690 MHz
Efficiency	: 43%-78%
Peak Gain	: 6.1 dBi
Output Impedance	: 50Ω
Output V.S.W.R	: 2.5~3 typ.

WiFi Antenna Specification

Frequency	: 2400-2500/5150-5850 MHz
Efficiency	: 66%-77%
Peak Gain	: 6.2 dBi
Output Impedance	: 50Ω
Output V.S.W.R	: 2 typ.

VSWR: LTE

Frequency(MHz)	ANT 02	Frequency(MHz)	ANT 02	Frequency(MHz)	ANT 02
698	2.9	1710	1.9	2300	1.3
960	1.8	2170	1.5	2690	1.2
698-960 MAX	2.9	1710-2170 MAX.	1.9	2300-2690 MAX	2.1



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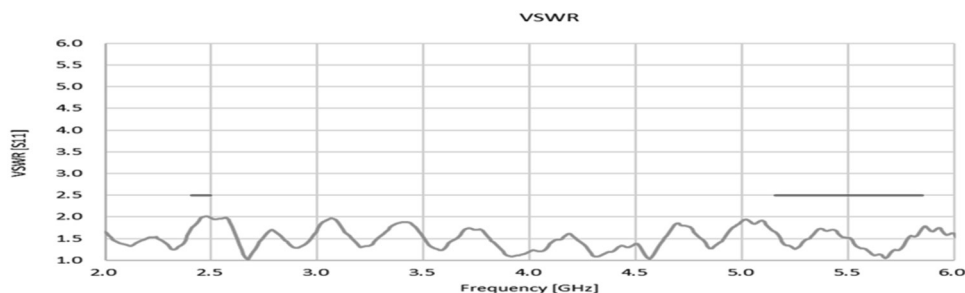
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VSWR: WiFi

Frequency(MHz)	ANT 03	Frequency(MHz)	ANT 03
2400	1.7	5150	1.7
2500	2	5850	1.8
2400-2500 Max.	2.1	5150-5850 Max.	1.8



Gain Table : LTE

ANT 01			
Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
698	46%	-3.4	1.2
704	49%	-3.1	1.9
746	45%	-3.5	2.1
760	49%	-3.1	2.1
787	58%	-2.4	3.0
791	61%	-2.2	3.5
824	60%	-2.2	3.9
836	56%	-2.5	3.4
849	57%	-2.5	3.0
869	51%	-2.9	1.9
880	45%	-3.5	1.6
894	43%	-3.6	1.5
900	44%	-3.6	1.4
915	50%	-3.0	2.3
925	56%	-2.6	2.7
940	61%	-2.1	2.9
960	67%	-1.8	3.1

ANT 01			
Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
1710	66%	-1.8	4.6
1750	68%	-1.7	4.7
1785	70%	-1.6	5.2
1805	72%	-1.4	5.5
1840	74%	-1.3	5.7
1850	74%	-1.3	5.7
1880	73%	-1.4	5.3
1910	70%	-1.5	5.2
1920	70%	-1.5	5.0
1930	72%	-1.4	4.9
1950	72%	-1.4	4.5
1960	73%	-1.4	4.4
1980	73%	-1.4	4.0
1990	74%	-1.3	3.8
2110	74%	-1.3	6.1
2140	75%	-1.3	5.5
2170	76%	-1.2	5.3

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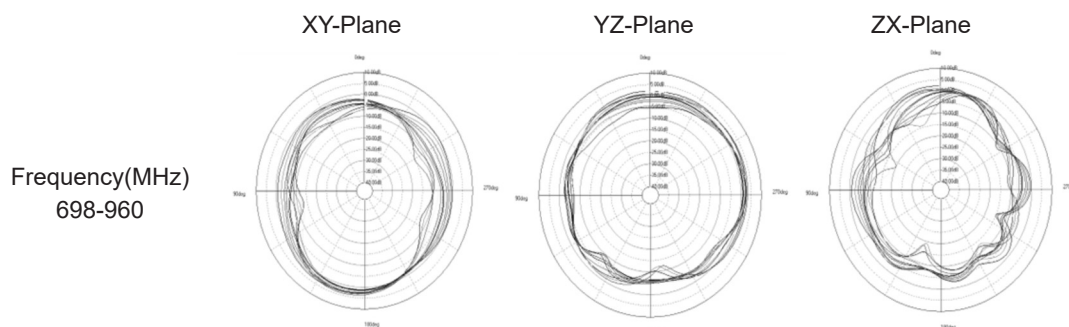
ANT 01			
Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
2300	76%	-1.2	5.9
2400	71%	-1.5	5.4
2500	52%	-2.8	2.5
2570	53%	-2.8	2.4
2595	68%	-1.7	3.3
2600	70%	-1.5	3.4
2620	75%	-1.2	3.6
2690	78%	-1.1	3.8
2700	78%	-1.1	4.1

Gain Table : WiFi

ANT 01			
Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
2400	66%	-1.8	3.3
2450	67%	-1.7	3.9
2500	68%	-1.7	4.4

ANT 01			
Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
5150	69%	-1.6	5
5200	70%	-1.5	5.2
5250	74%	-1.3	5.6
5300	76%	-1.2	5.5
5350	77%	-1.1	5.3
5470	75%	-1.2	5.2
5600	77%	-1.1	5.9
5725	77%	-1.2	5.5
5800	77%	-1.2	6
5850	76%	-1.2	6.2

3D Radiation Pattern: LTE

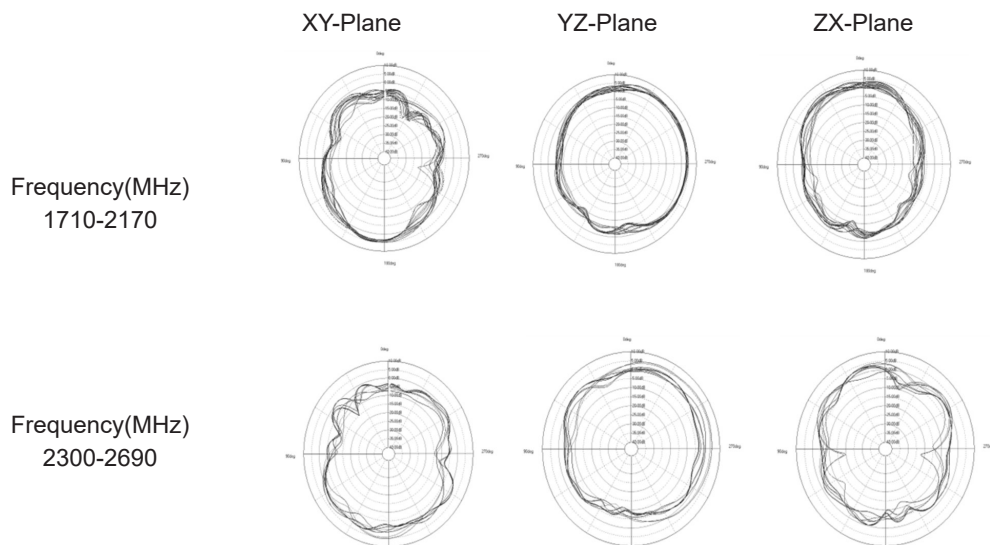


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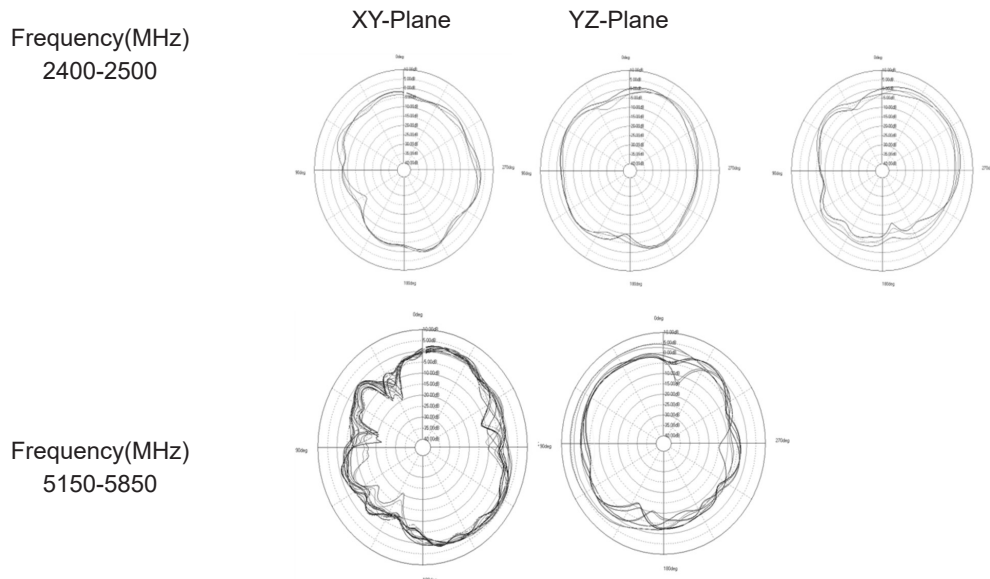
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3D Radiation Pattern: WiFi



Part Number Table

Description	Part Number
Raspberry PI PCB Adaptor Board	MP015780
Raspberry PI Enclosure Kit LTE/WIFI	MP015781

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