

# Antenna Specification

Product Model: EAP650 2.0

Version: 1.0

Date: 2022.10.27

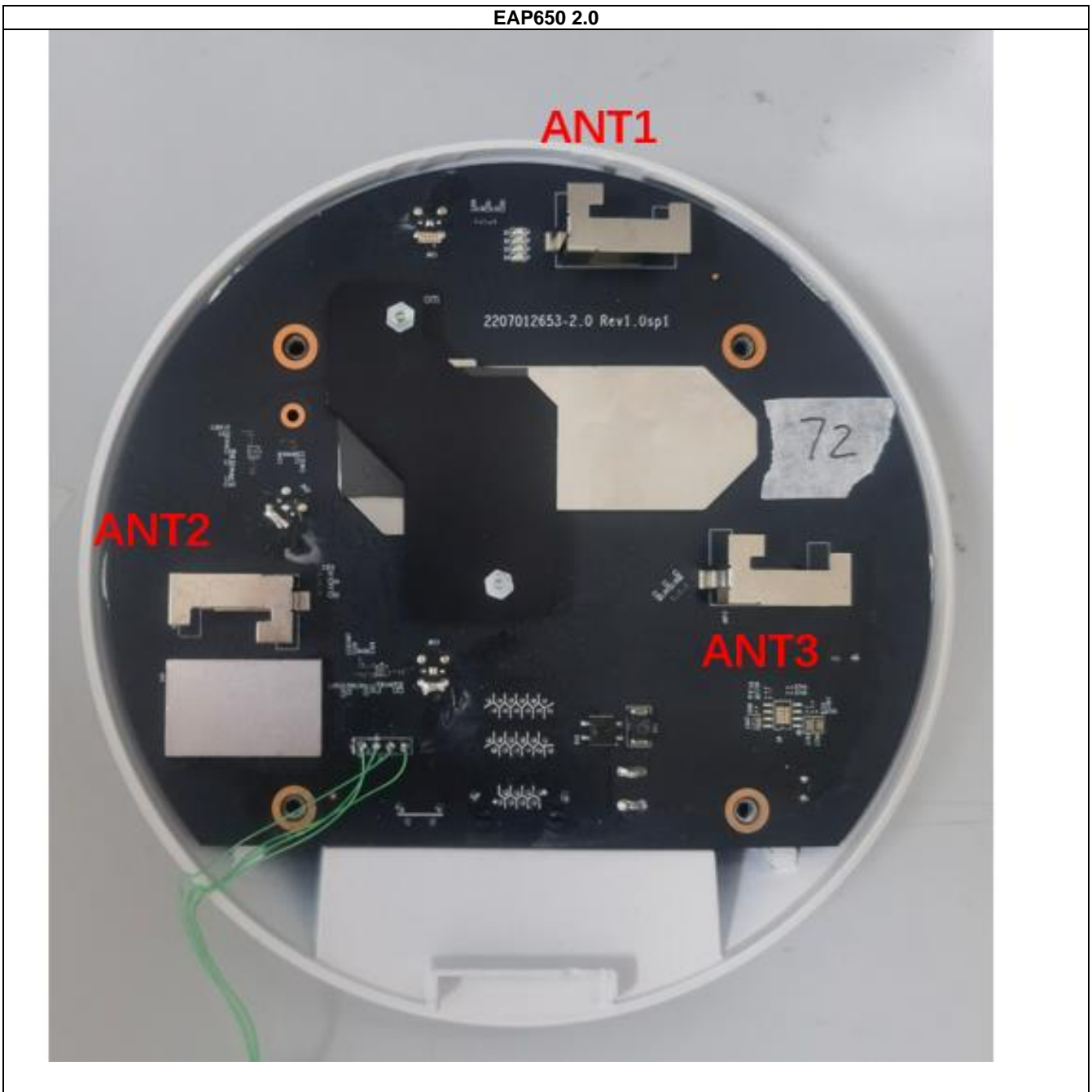
Checked By: \_\_\_\_\_

**TP-Link Corporation Limited**  
Room 901, 9/F. , New East Ocean Centre,  
9 Science Museum Road, Tsim Sha Tsui,  
Kowloon, Hong Kong  
TEL: 00852-37585503  
<http://www.tp-link.com/en>

# Index

I. Antenna Distribution.....	3
II. Electrical Characteristics .....	3
III. Antenna Peak Gain.....	4
IV. Antenna Radiation Pattern .....	5

# I. Antenna Distribution



# II. Electrical Characteristics

Ant1	
Frequency	2400 ~ 2500 & 5150~5850MHz
Impedance	50Ohm
Antenna Type	IFA
Antenna Gain	3.00dBi@2400~2500MHz 2.00dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant2	
Frequency	2400 ~ 2500 & 5150~5850MHz
Impedance	50Ohm
Antenna Type	IFA

<b>Antenna Gain</b>	3.00dBi@2400~2500MHz 2.00dBi@5150~5850MHz
<b>Radiation pattern</b>	Omni-Directional

<b>Ant3</b>	
<b>Frequency</b>	2400 ~ 2500 &5150~5850MHz
<b>Impedance</b>	50Ohm
<b>Antenna Type</b>	IFA
<b>Antenna Gain</b>	3.00dBi@2400~2500MHz 2.00dBi@5150~5850MHz
<b>Radiation pattern</b>	Omni-Directional

### III. Antenna Peak Gain

<b>Ant1</b>											
<b>Frequency(MHz)</b>	<b>2400</b>	<b>2410</b>	<b>2420</b>	<b>2430</b>	<b>2440</b>	<b>2450</b>	<b>2460</b>	<b>2470</b>	<b>2480</b>	<b>2490</b>	<b>2500</b>
<b>Gain(dBi)</b>	1.59	1.83	1.99	2.16	2.32	2.40	2.49	2.58	2.62	2.75	3.00
<b>Frequency(MHz)</b>	<b>5150</b>	<b>5200</b>	<b>5250</b>	<b>5300</b>	<b>5350</b>	<b>5400</b>	<b>5450</b>	<b>5500</b>	<b>5550</b>	<b>5600</b>	<b>5650</b>
<b>Gain(dBi)</b>	0.63	1.11	1.50	1.62	1.44	1.67	2.00	1.52	1.27	1.49	1.08
<b>Frequency(MHz)</b>	<b>5700</b>	<b>5750</b>	<b>5800</b>	<b>5850</b>							
<b>Gain(dBi)</b>	0.48	-0.01	-0.37	-0.48							

<b>Ant2</b>											
<b>Frequency(MHz)</b>	<b>2400</b>	<b>2410</b>	<b>2420</b>	<b>2430</b>	<b>2440</b>	<b>2450</b>	<b>2460</b>	<b>2470</b>	<b>2480</b>	<b>2490</b>	<b>2500</b>
<b>Gain(dBi)</b>	2.30	2.44	2.58	2.70	2.74	2.74	2.74	2.79	2.77	2.79	3.00
<b>Frequency(MHz)</b>	<b>5150</b>	<b>5200</b>	<b>5250</b>	<b>5300</b>	<b>5350</b>	<b>5400</b>	<b>5450</b>	<b>5500</b>	<b>5550</b>	<b>5600</b>	<b>5650</b>
<b>Gain(dBi)</b>	2.00	1.91	1.89	1.70	1.53	1.61	1.77	1.69	1.54	1.75	1.38
<b>Frequency(MHz)</b>	<b>5700</b>	<b>5750</b>	<b>5800</b>	<b>5850</b>							
<b>Gain(dBi)</b>	1.26	0.76	0.59	0.32							

<b>Ant3</b>											
<b>Frequency(MHz)</b>	<b>2400</b>	<b>2410</b>	<b>2420</b>	<b>2430</b>	<b>2440</b>	<b>2450</b>	<b>2460</b>	<b>2470</b>	<b>2480</b>	<b>2490</b>	<b>2500</b>
<b>Gain(dBi)</b>	2.82	2.97	3.00	2.97	2.88	2.67	2.47	2.39	2.37	2.48	2.40
<b>Frequency(MHz)</b>	<b>5150</b>	<b>5200</b>	<b>5250</b>	<b>5300</b>	<b>5350</b>	<b>5400</b>	<b>5450</b>	<b>5500</b>	<b>5550</b>	<b>5600</b>	<b>5650</b>
<b>Gain(dBi)</b>	0.50	0.34	0.75	0.95	1.35	1.64	2.00	1.78	1.62	1.41	0.91
<b>Frequency(MHz)</b>	<b>5700</b>	<b>5750</b>	<b>5800</b>	<b>5850</b>							
<b>Gain(dBi)</b>	1.56	1.87	1.84	1.66							

# IV. Antenna Radiation Pattern

