

## Maximum Permissive Exposure

FCC ID: 2AY4C-GM06  
 Product Name: Mini PC  
 M/N: A Series; A 5; A 6; A 7; A x (x=0-9)

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (Minutes)
<b>(A) Limits for Occupational / Control Exposures (f = frequency)</b>				
30-300	61.4	0.163	1.0	6
300-1500	---	---	f/300	6
1500-100,000	---	---	5.0	6
<b>(B) Limits for General Population / Uncontrolled Exposures (f = frequency)</b>				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30

### 2. MPE Calculation

**APTIV Services Deutschland GmbH** declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

RF Exposure Calculations:  $S = (P * G) / (4 * \pi * r^2)$  or  $r = \sqrt{(P * G) / (4 * \pi * S)}$

#### 2.1. Estimation Result

For non-metal appearance device  
**WiFi 2.4GHz:**

Test Mode	Output Power (dBm)		Output Power (mW)		Antenna Gain (dBi)		Antenna Gain (Linear)		MPE		
	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	Total
11b (MIMO)	9.68	9.98	9.29	<b>9.95</b>	1.23	1.47	1.33	1.40	0.0025	0.0028	<b>0.0053</b>
11g (MIMO)	6.23	6.49	4.20	4.46	1.23	1.47	1.33	1.40	0.0011	0.0012	0.0023
11n HT20 (MIMO)	5.27	5.93	3.37	3.92	1.23	1.47	1.33	1.40	0.0009	0.0011	0.0020



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11n HT40 (MIMO)	3.67	3.56	2.33	2.27	1.23	1.47	1.33	1.40	0.0006	0.0006	0.0012
11ax HE20 (MIMO)	5.19	5.47	3.30	3.52	1.23	1.47	1.33	1.40	0.0009	0.0010	0.0019
11ax HE40 (MIMO)	3.59	3.41	2.29	2.19	1.23	1.47	1.33	1.40	0.0006	0.0006	0.0012
Conclusion:Pass											

**WiFi 5GHz:**

Test Mode	Output Power (dBm)		Output Power (mW)		Antenna Gain (dBi)		Antenna Gain (Linear)		MPE		
	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	Total
<b>WiFi5G Band1</b>											
11a (MIMO)	12.74	12.90	18.79	<b>19.50</b>	3.28	4.39	2.13	2.75	0.0080	0.0107	0.0187
11n HT20 (MIMO)	12.41	12.28	17.42	16.90	3.28	4.39	2.13	2.75	0.0074	0.0092	0.0166
11n HT40 (MIMO)	10.68	10.63	11.69	11.56	3.28	4.39	2.13	2.75	0.0050	0.0063	0.0113
11ac VHT20 (MIMO)	12.59	12.69	18.16	18.58	3.28	4.39	2.13	2.75	0.0077	0.0102	0.0179
11ac VHT40 (MIMO)	10.32	10.49	10.76	11.19	3.28	4.39	2.13	2.75	0.0046	0.0061	0.0107
11ac VHT80 (MIMO)	8.83	8.81	7.64	7.60	3.28	4.39	2.13	2.75	0.0032	0.0042	0.0074
11ax HE20 (MIMO)	11.76	11.61	15.00	14.49	3.28	4.39	2.13	2.75	0.0064	0.0079	0.0140
11ax HE40 (MIMO)	10.34	10.37	10.81	10.89	3.28	4.39	2.13	2.75	0.0046	0.0060	0.0110
11ax HE80 (MIMO)	8.03	8.21	6.35	6.62	3.28	4.39	2.13	2.75	0.0027	0.0036	0.0060
<b>WiFi5G Band4</b>											
11a (MIMO)	12.79	12.63	19.01	18.32	7.53	5.95	5.66	3.94	0.0214	0.0144	<b>0.0358</b>
11n HT20 (MIMO)	12.66	12.45	18.45	17.58	7.53	5.95	5.66	3.94	0.0208	0.0138	0.0346
11n HT40 (MIMO)	10.49	10.88	11.19	12.25	7.53	5.95	5.66	3.94	0.0126	0.0096	0.0222



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11ac VHT20 (MIMO)	12.71	12.63	18.66	18.32	7.53	5.95	5.66	3.94	0.0210	0.0144	0.0354
11ac VHT40 (MIMO)	10.81	10.50	12.05	11.22	7.53	5.95	5.66	3.94	0.0136	0.0088	0.0224
11ac VHT80 (MIMO)	8.95	8.79	7.85	7.57	7.53	5.95	5.66	3.94	0.0089	0.0059	0.0148
11ax HE20 (MIMO)	12.00	11.59	15.85	14.42	7.53	5.95	5.66	3.94	0.0179	0.0113	0.0292
11ax HE40 (MIMO)	10.50	10.34	11.22	10.81	7.53	5.95	5.66	3.94	0.0126	0.0085	0.0211
11ax HE80 (MIMO)	8.26	8.24	6.70	6.67	7.53	5.95	5.66	3.94	0.0076	0.0052	0.0128

Conclusion:Pass

For metal appearance device

**WiFi 2.4GHz:**

Test Mode	Output Power (dBm)		Output Power (mW)		AntennaGain (dBi)		AntennaGain (Linear)		MPE		
	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	Total
11b (MIMO)	9.68	9.98	9.29	9.95	0.44	0.54	1.11	1.13	0.0020	0.0022	0.0042
11g (MIMO)	6.23	6.49	4.20	4.46	0.44	0.54	1.11	1.13	0.0009	0.0010	0.0019
11n HT20 (MIMO)	5.27	5.93	3.37	3.92	0.44	0.54	1.11	1.13	0.0007	0.0009	0.0016
11n HT40 (MIMO)	3.67	3.56	2.33	2.27	0.44	0.54	1.11	1.13	0.0005	0.0005	0.001
11ax HE20 (MIMO)	5.19	5.47	3.30	3.52	0.44	0.54	1.11	1.13	0.0007	0.0008	0.0013
11ax HE40 (MIMO)	3.59	3.41	2.29	2.19	0.44	0.54	1.11	1.13	0.0005	0.0005	0.001

Conclusion:Pass



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**WiFi 5GHz:**

Test Mode	Output Power (dBm)		Output Power (mW)		Antenna Gain (dBi)		Antenna Gain (Linear)		MPE		
	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	Total
<b>WiFi5G Band1</b>											
11a (MIMO)	12.74	12.90	18.79	19.50	2.47	-0.7	1.77	0.85	0.0066	0.0033	0.0099
11n HT20 (MIMO)	12.41	12.28	17.42	16.90	2.47	-0.7	1.77	0.85	0.0061	0.0029	0.009
11n HT40 (MIMO)	10.68	10.63	11.69	11.56	2.47	-0.7	1.77	0.85	0.0041	0.0020	0.0061
11ac VHT20 (MIMO)	12.59	12.69	18.16	18.58	2.47	-0.7	1.77	0.85	0.0064	0.0031	0.0095
11ac VHT40 (MIMO)	10.32	10.49	10.76	11.19	2.47	-0.7	1.77	0.85	0.0038	0.0019	0.0057
11ac VHT80 (MIMO)	8.83	8.81	7.64	7.60	2.47	-0.7	1.77	0.85	0.0027	0.0013	0.004
11ax HE20 (MIMO)	11.76	11.61	15.00	14.49	2.47	-0.7	1.77	0.85	0.0053	0.0025	0.0078
11ax HE40 (MIMO)	10.34	10.37	10.81	10.89	2.47	-0.7	1.77	0.85	0.0038	0.0018	0.0056
11ax HE80 (MIMO)	8.03	8.21	6.35	6.62	2.47	-0.7	1.77	0.85	0.0022	0.0011	0.0033
<b>WiFi5G Band4</b>											
11a (MIMO)	12.79	12.63	19.01	18.32	2.09	0.03	1.62	1.01	0.0061	0.0037	0.0098
11n HT20 (MIMO)	12.66	12.45	18.45	17.58	2.09	0.03	1.62	1.01	0.0059	0.0035	0.0094
11n HT40 (MIMO)	10.49	10.88	11.19	12.25	2.09	0.03	1.62	1.01	0.0036	0.0025	0.0061
11ac VHT20 (MIMO)	12.71	12.63	18.66	18.32	2.09	0.03	1.62	1.01	0.0060	0.0037	0.0097
11ac VHT40 (MIMO)	10.81	10.50	12.05	11.22	2.09	0.03	1.62	1.01	0.0039	0.0022	0.0061
11ac VHT80 (MIMO)	8.95	8.79	7.85	7.57	2.09	0.03	1.62	1.01	0.0025	0.0015	0.004
11ax HE20 (MIMO)	12.00	11.59	15.85	14.42	2.09	0.03	1.62	1.01	0.0051	0.0029	0.008



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11ax HE40 (MIMO)	10.50	10.34	11.22	10.81	2.09	0.03	1.62	1.01	0.0036	0.0022	0.0058
11ax HE80 (MIMO)	8.26	8.24	6.70	6.67	2.09	0.03	1.62	1.01	0.0022	0.0013	0.0035
Conclusion:Pass											

Based on safety distance (r) **20cm**, the antenna gain (G) numerical as below:

Antenna System	
Type of Antenna	PIFA
Antenna Peak Gain (metal appearance)	Bluetooth Peak Gain: 0.54dBi 2.4GHz Peak Gain: ANT 0: 0.44dBi; ANT 1: 0.54dBi Band 1 Peak Gain: ANT 0: 2.47dBi; ANT 1: -0.7dBi Band 4 Peak Gain: ANT 0: 2.09dBi; ANT 1: 0.03dBi
Antenna Peak Gain (Non-metal appearance)	Bluetooth Peak Gain: 1.47dBi 2.4GHz Peak Gain: ANT 0: 1.23dBi; ANT 1: 1.47dBi Band 1 Peak Gain: ANT 0: 3.28dBi; ANT 1: 4.39dBi Band 4 Peak Gain: ANT 0: 7.53dBi; ANT 1: 5.95dBi

and the WiFi 2.4GHz highest power output (P) is **9.95mW**, and the WiFi 5GHz highest power output (P) is **19.50mW**;  
 the WiFi 2.4GHz power density (S) is **0.0053 mW/cm<sup>2</sup>**, the WiFi 5GHz power density (S) is **0.0358 mW/cm<sup>2</sup>**.