KDB 447498 D03
47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

Tablet

Model: MP10-ARGON-C

Trade Name: ICON/iFit

Issued to

Compal Electronics Inc
No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492 Taiwan

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan. (R.O.C.)
Issue Date: June 22, 2020

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	June 22, 2020	Initial Issue	ALL	Allison Chen

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1. TEST RESULT CERTIFICATION

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	No non-compliance noted
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

Approved by:

Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

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2. LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

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3. EUT SPECIFICATION

EUT	Tablet
Model	MP10-ARGON-C
Model Discrepancy	N/A
Frequency band (Operating)	☒ Bluetooth: 2402MHz-2480MHz ☒ 802.11b/g/n HT20: 2412MHz ~ 2462 MHz ☒ 802.11n HT40: 2422MHz ~ 2452MHz ☒ 802.11a/n HT20: 5180MHz ~ 5240MHz / 5260 ~ 5320MHz 5500 ~ 5700MHz / 5745MHz ~ 5825MHz 802.11n HT40: 5190MHz ~ 5230MHz / 5270 ~ 5310MHZ 5510 ~ 5670MHz / 5755MHz ~ 5795MHz ☐ 802.11ac VHT80: 5210MHz / 5290MHz / 5530 MHz~5610MHz / 5775MHz ☐ Others
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm^2) ☒ General Population/Uncontrolled exposure (S=1mW/cm^2)
Antenna Specification	**PIFA Antenna** BT & WIFI 2.4GHz: -0.11 dBi WIFI 5GHz: 0.69 dBi BT: Directional Gain : -0.11 dBi (Numeric gain: 0.97) Worst 2.4GHz: Directional Gain : -0.11 dBi (Numeric gain: 0.97) Worst 5GHz: Directional Gain : 0.69 dBi (Numeric gain: 1.17) Worst

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<table>
<tr><td>Maximum Measurement Average Power</td><td>
<table>
<tr><td>BT</td><td>3.51 dBm</td><td>(2.244 mW)</td></tr>
<tr><td>2.4GHz</td><td></td><td></td></tr>
<tr><td>IEEE 802.11b Mode:</td><td>18.26 dBm</td><td>(66.988 mW)</td></tr>
<tr><td>IEEE 802.11g Mode:</td><td>16.17 dBm</td><td>(41.400 mW)</td></tr>
<tr><td>IEEE 802.11n HT 20 Mode:</td><td>17.99 dBm</td><td>(62.951 mW)</td></tr>
<tr><td>IEEE 802.11n HT 40 Mode:</td><td>18.72 dBm</td><td>(74.473 mW)</td></tr>
<tr><td>5GHz</td><td></td><td></td></tr>
<tr><td>IEEE 802.11a Mode:</td><td>16.44 dBm</td><td>(44.055 mW)</td></tr>
<tr><td>IEEE 802.11n HT 20 Mode:</td><td>16.55 dBm</td><td>(45.186 mW)</td></tr>
<tr><td>IEEE 802.11n HT 40 Mode:</td><td>16.50 dBm</td><td>(44.668 mW)</td></tr>
</table>
</td></tr>
<tr><td>Maximum tune up power</td><td>
<table>
<tr><td>BT</td><td>4.50 dBm</td><td>(2.818 mW)</td></tr>
<tr><td>2.4GHz</td><td></td><td></td></tr>
<tr><td>IEEE 802.11b Mode:</td><td>19.00 dBm</td><td>(79.433 mW)</td></tr>
<tr><td>IEEE 802.11g Mode:</td><td>17.00 dBm</td><td>(50.119 mW)</td></tr>
<tr><td>IEEE 802.11n HT 20 Mode:</td><td>18.50 dBm</td><td>(70.795 mW)</td></tr>
<tr><td>IEEE 802.11n HT 40 Mode:</td><td>19.50 dBm</td><td>(89.125 mW)</td></tr>
<tr><td>5GHz</td><td></td><td></td></tr>
<tr><td>IEEE 802.11a Mode:</td><td>17.00 dBm</td><td>(50.119 mW)</td></tr>
<tr><td>IEEE 802.11n HT 20 Mode:</td><td>17.50 dBm</td><td>(56.234 mW)</td></tr>
<tr><td>IEEE 802.11n HT 40 Mode:</td><td>17.50 dBm</td><td>(56.234 mW)</td></tr>
</table>
</td></tr>
<tr><td>Evaluation applied</td><td>☒ MPE Evaluation*
☐ SAR Evaluation
☐ N/A</td></tr>
</table>

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4. TEST RESULTS

No non-compliance noted.

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter
P = Power in Watts
G = Numeric antenna gain
d = Distance in meters
S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and

d (cm) = d(m) / 100

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$ ***Equation 1***

Where d = Distance in cm
P = Power in mW
G = Numeric antenna gain
S = Power density in mW / cm²

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5. MAXIMUM PERMISSIBLE EXPOSURE

Substituting the MPE safe distance using d = 20 cm into Equation 1:

$$S = 0.000199 \times P \times G$$

Where *P = Power in mW*
G = Numeric antenna gain
S = Power density in mW / cm²

BT:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm²	Limit (mW/cm2)
39	2441	2.818	0.97	20	0.0005	1

IEEE 802.11b mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm²	Limit (mW/cm2)
6	2437	79.433	0.97	20	0.0153	1

IEEE 802.11g mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm²	Limit (mW/cm2)
6	2437	50.119	0.97	20	0.0097	1

IEEE 802.11n HT20 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm²	Limit (mW/cm2)
11	2462	70.795	0.97	20	0.0137	1

IEEE 802.11n HT40 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm²	Limit (mW/cm2)
6	2437	89.125	0.97	20	0.0172	1

IEEE 802.11a mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm²	Limit (mW/cm2)
48	5240	50.119	1.17	20	0.0117	1

IEEE 802.11n HT20 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm²	Limit (mW/cm2)
36	5180	56.234	1.17	20	0.0131	1

IEEE 802.11n HT40 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm²	Limit (mW/cm2)
46	5230	56.234	1.17	20	0.0131	1

--End of Report--

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