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Report No.: T200505W01-MF

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Rev.: 00

**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.**  
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**Issue Date: June 22, 2020**

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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:

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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

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

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

## 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:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

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

Where  $d =$  Distance in cm

$P =$  Power in mW

$G =$  Numeric antenna gain

$S =$  Power density in mW / cm<sup>2</sup>



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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 / cm<sup>2</sup>

**BT:**

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm <sup>2</sup>	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 / cm <sup>2</sup>	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 / cm <sup>2</sup>	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 / cm <sup>2</sup>	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 / cm <sup>2</sup>	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 / cm <sup>2</sup>	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 / cm <sup>2</sup>	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 / cm <sup>2</sup>	Limit (mW/cm2)
46	5230	56.234	1.17	20	0.0131	1

**--End of Report--**