

RF EXPOSURE REPORT

Report No.: DDT-B23092109-4E04

| | | |
|-----------------------------|---|---|
| Applicant | : | Honeywell International Inc |
| Address | : | 12 Clintonville Rd , Northford , CT 06472 , USA |
| Equipment under Test | : | Connected Power HUB, White |
| Model No. | : | CSHUB3WHI |
| Trade Mark | : | Honeywell |
| FCC ID | : | 2A8LTNH0001 |
| Manufacturer | : | MK Electric (M) Sdn Bhd |
| Address | : | Komplek Perusahaan LTAT, Jalan Pengapit 15/19, Batu 3 Industrial Estate, 40000 Shah Alam, Selangor. |

Issued By: Tianjin Dongdian Testing Service Co., Ltd.

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TEST REPORT DECLARE

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Tianjin Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Tianjin Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assessments.

After evaluation, our opinion is that the equipment In Accordance with above standard.

| | | | |
|-------------------------|--------------------|----------------------|-------------------------------|
| Report No: | DDT-B23092109-4E02 | | |
| Date of Receipt: | Oct. 11, 2023 | Date of Test: | Oct. 11, 2023 ~ Oct. 20, 2023 |

Prepared By:

Novak Wei

Novak Wei/Engineer

Approved By:

Aaron Zhang

Aaron Zhang/Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision History

| Rev. | Revisions | Issue Date | Revised By |
|------|---------------|---------------|------------|
| --- | Initial issue | Oct. 23, 2023 | |
| | | | |

1. General information

1.1. Description of Equipment

| | |
|--------------------------|---|
| EUT* Name | : Connected Power HUB, White |
| Model Number | : CSHUB3WHI |
| EUT function description | : Please reference user manual of this device |
| Power supply | : AC 125V 60Hz |
| Radio Specification | : BLE 5.0 |
| Operation Frequency | : 2402 MHz - 2480 MHz |
| Modulation | : GFSK |
| Transmitter Rate | : 1 Mbps, 2 Mbps |
| Antenna Type | : PCB antenna, maximum PK gain: 1.43dBi |
| Exposure category | : General population/uncontrolled environment |
| Device Type | : Mobile Device |

1.2. Assess laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038033, <http://www.ddttest.com>, Email: ddt@dgddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2. RF Exposure Evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|---|--|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | | | F/1500 | 30 |
| 1500-100,000 | | | 1.0 | 30 |

Note: f = frequency in MHz ; *Plane-wave equivalent power density

2.2. Calculation method

$$E(\text{V/m}) = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } S(\text{mW/cm}^2) = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \quad \text{or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation result

| Worst Mode | Max. Tune Up power (dBm) | Output power (mW) | Antenna Gain (dBi) | Antenna Gain (linear) | MPE Values (mW/cm ²) | MPE Limit (mW/cm ²) |
|------------|--------------------------|-------------------|--------------------|-----------------------|----------------------------------|---------------------------------|
| BLE 2M | 10 | 10 | 1.43 | 1.4 | 0.003 | 1 |

Note: The estimation distance is 20 cm

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

END OF REPORT