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RF EXPOSURE REPORT

Applicant: Darfon Electronics Czech s.r.o.

Turanka 1315/112, 627 00 Brno, Czech Republic.

Manufacturer: Darfon Electronics Czech s.r.o.

Turanka 1315/112, 627 00 Brno, Czech Republic.

Product Name: Mouse

Brand Name: QPAD

Model No.: DX-900

Model Difference: N/A

Report Number: E2/2021/30052

FCC ID 2AZDI-DX-900

IC: 27074-DX900

FCC Rule Part Part 2.1093

ISED Rule: RSS-102 issue 5 Mar. 19, 2015

Issue Date: May 19, 2021

We hereby certify that:

The data evaluation in this report is in compliance with FCC Rules Part 2 & RSS-102. The results of this report relate only to the sample identified in this report.

Approved By:

John Yeh / Asst. Manager

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| Revision History | | | | | |
|------------------|----------|------------------------|--------------|-------------|--|
| Report Number | Revision | Description Issue Date | | Revised By | |
| E2/2021/30052 | Rev.00 | Original. | May 19, 2021 | Ariel Chang | |
| | | | | | |

Note:

1 . Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 **General Information**

| Product Name | Mouse Mouse | |
|------------------|------------------------------------|--|
| Brand Name | QPAD | |
| Model No. | DX-900 | |
| Model Difference | N/A | |
| Hardware Version | 02 | |
| Firmware Version | 0202 | |
| | 1. EUT from host system. (DC 3.7V) | |
| Power Supply | 2. EUT from Lithium Battery. | |
| | Rating: DC 3.7V, 690mAh, 2.553Wh | |

1.2 **Antenna Information:**

1.2.1 WLAN 2.4GHz

| Antenna Type | Supplier | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) | Worst Antenna Gain |
|------------------|----------|---------------------|----------------|-------------------------------|--------------------------|
| Internal Antenna | N/A | N/A | 2400-2500 | -2.07 | - |

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FCC STANDARD APPLICABLE

2.1 **FCC Standard Applicable:**

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

As per KDB 447498 D01 4.3.1,

Step a: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · $[\sqrt{f(GHz)}] \le 3.0$ for 1-g Head & Body SAR and ≤ 7.5 for 10-g extremity Hand SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

Step b: For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

- 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance - 50 mm)·(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
- 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·10]} mW, for > 1500 MHz and ≤ 6 GHz

2.2 **Measurement Result:**

| Step a: | | | | | | | |
|---|--|---|------------------|--------|--|--|--|
| This is a portable device and the max. output power including tune-up | | | | | | | |
| tolerance is 0 | tolerance is 0.596 (mW), lower than the threshold given and derived as | | | | | | |
| | above, where | 3 | | | | | |
| iorriala giveri | abovo, writero | | | | | | |
| 0.500/ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 5/ * \0.400/OU | | | | | | |
| $=0.596$ (mW)/5(mm)* $\sqrt{2.402}$ (GHz) = 0.2 < 3.0 | | | | | | | |
| | | | | | | | |
| Frequency (MHz) | Max. output power including tune-up tolerance(dBm) | Max. output power including tune-up tolerance(mW) | Distance (mm) | Result | | | |
| 2402 -2.25 | | 0.596 | 5 0.2 | | | | |

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2.3 **ISED Standard Applicable**

As per RSS-102 Issue 5 March 19, 2015, any transmitter shall be compliant with applicable RF exposure prior to being market. In §2.5.1, SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1.

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power.

For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5.

2.4 **Measurement Result:**

| Freq. (MHz) | Max. output power including tune-up tolerance(dBm) | Peak Gain (dBi) | Max Conducted Output Power (mW) | e.i.r.p (mW) | Exemption Limit (mW) |
|----------------|--|-----------------------|---------------------------------------|--------------|-------------------------|
| 2480 | -2.25 | -2.07 | 0.596 | 0.370 | 4 |

Measurement Result

The Max. Conducted Output Power is 0.596mW when the device operates at the saperation distance below or equals to 5mm. It is below the SAR exemption limit 4mW.

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