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RF EXPOSURE REPORT

OF

Applicant: Quanta Computer Inc.

No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City,

Taiwan (R.O.C.)

Product Name: VR Controller

Brand Name:

, HP, HP Inc.

Marketing Name: HP Reverb G2 Controllers

Model No.: TPC-Q077-C1

Model Difference: N/A

Report Number: E2/2020/60053

FCC ID HFS-A85KR

FCC Rule Part Part 2.1093

Issue Date: Jul. 31, 2020

We hereby certify that:

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

Approved By:

Yeh John / Asst. Manager



Member of SGS Group



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| Revision History | | | | | | | | | |
|--|--------|-----------|---------------|-----------------------|--|--|--|--|--|
| Report Number Revision Description Issue Date Remark | | | | | | | | | |
| E2/2020/60053 | Rev.00 | Original. | Jul. 31, 2020 | Revised By: Susan Lin | | | | | |

Note:

1. Multiple Model numbers or Trademarks

The variant trademarks are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

Disclaimer

Antenna information and Variant information among trademarks are provided by the applicant, the test results of this report are applicable to the sample EUT received.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 General Information

| Product Name: | VR Controller |
|-------------------|--------------------------|
| Brand Name: | , HP, HP Inc. |
| Marketing Name: | HP Reverb G2 Controllers |
| Model No.: | TPC-Q077-C1 |
| Model Difference: | N/A |
| Hardware Version: | N/A |
| Software Version: | N/A |
| Power Supply: | 3Vdc from AA Battery*2 |

1.2 Maximum Output power

The Max. output power value is derived from below test report(s).

| Report Number: | E2/2020/60048 |
|----------------|-----------------|
| Test Lab: | SGS Taiwan Ltd. |

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2 STANDARD APPLICABLE

2.1 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)] \cdot [\forall f(GHz)] \leq 3.0 for 1-g Head & Body SAR and \leq 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

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2.2 Measurement Result:

Step a:

This is a portable device and the max. output power including tune-up tolerance is 2.576 (mW), lower than the threshold given and derived as formula given above, where

 $=2.576(\text{mW})/5(\text{mm})^*\sqrt{2.441}$ (GHz) =0.805<3.0

| Frequency (MHz) | Max. output power including tune-up tolerance(dBm) | Max. output power including tune-up tolerance(mW) | Distance (mm) | Result | ≤ 3.0 for 1-g SAR |
|--------------------|--|---|------------------|--------|----------------------|
| 2441 | 4.11 | 2.576 | 5 | 0.805 | TRUE |

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

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The table of quick reference in terms of power threshold 2.3

Appendix A

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

| MHz | 5 | 10 | 15 | 20 | 25 | mm | | | |
|---|---|---|---|--|---|-----------------------|--|--|--|
| 150 | 39 | 77 | 116 | 155 | 194 | | | | |
| 300 | 27 | 55 | 82 | 110 | 137 | | | | |
| 450 | 22 | 45 | 67 | 89 | 112 | | | | |
| 835 | 16 | 33 | 49 | 66 | 82 | | | | |
| 900 | 16 | 32 | 47 | 63 | 79 | | | | |
| 1500 | 12 | 24 | 37 | 49 | 61 | SAR Test Exclusion | | | |
| 1900 | 11 | 22 | 33 | 44 | 54 | Threshold (mW) | | | |
| 2450 | 10 | 19 | 29 | 38 | 48 | | | | |
| 3600 | 8 | 16 | 24 | 32 | 40 | | | | |
| 5200 | 7 | 13 | 20 | 26 | 33 | | | | |
| 5400 | 6 | 13 | 19 | 26 | 32 | | | | |
| 5800 | 6 | 12 | 19 | 25 | 31 | | | | |
| · | | | | | | | | | |
| 2.011 | 20 | 25 | 40 | 45 | 50 | 0.000 | | | |
| MHz | 30 | 35 | 40 | 45 | 50 | mm | | | |
| 150 | 232 | 271 | 310 | 349 | 387 | mm | | | |
| 150 300 | 232 164 | 271 192 | 310 219 | 349 246 | 387 274 | mm | | | |
| 150 300 450 | 232 164 134 | 271 192 157 | 310 219 179 | 349 246 201 | 387 274 224 | mm | | | |
| 150 300 | 232 164 134 98 | 271 192 157 115 | 310 219 179 131 | 349 246 201 148 | 387 274 224 164 | mm | | | |
| 150 300 450 | 232 164 134 | 271 192 157 | 310 219 179 | 349 246 201 | 387 274 224 | | | | |
| 150 300 450 835 | 232 164 134 98 | 271 192 157 115 | 310 219 179 131 126 98 | 349 246 201 148 | 387 274 224 164 | SAR Test | | | |
| 150 300 450 835 900 | 232 164 134 98 95 | 271 192 157 115 111 | 310 219 179 131 126 | 349 246 201 148 142 | 387 274 224 164 158 | SAR Test Exclusion | | | |
| 150 300 450 835 900 1500 | 232 164 134 98 95 73 | 271 192 157 115 111 86 | 310 219 179 131 126 98 | 349 246 201 148 142 110 | 387 274 224 164 158 122 | SAR Test | | | |
| 150 300 450 835 900 1500 1900 | 232 164 134 98 95 73 65 | 271 192 157 115 111 86 76 | 310 219 179 131 126 98 87 | 349 246 201 148 142 110 98 | 387 274 224 164 158 122 109 | SAR Test Exclusion | | | |
| 150 300 450 835 900 1500 1900 2450 | 232 164 134 98 95 73 65 57 | 271 192 157 115 111 86 76 67 | 310 219 179 131 126 98 87 77 | 349 246 201 148 142 110 98 86 | 387 274 224 164 158 122 109 96 | SAR Test Exclusion | | | |
| 150 300 450 835 900 1500 1900 2450 3600 | 232 164 134 98 95 73 65 57 47 | 271 192 157 115 111 86 76 67 55 | 310 219 179 131 126 98 87 77 63 | 349 246 201 148 142 110 98 86 71 | 387 274 224 164 158 122 109 96 79 | SAR Test Exclusion | | | |

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

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Appendix B

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and > 50 mm

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

| MHz | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | mm |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|----|
| 100 | 474 | 481 | 487 | 494 | 501 | 507 | 514 | 521 | 527 | 534 | 541 | 547 | 554 | 561 | 567 | |
| 150 | 387 | 397 | 407 | 417 | 427 | 437 | 447 | 457 | 467 | 477 | 487 | 497 | 507 | 517 | 527 | |
| 300 | 274 | 294 | 314 | 334 | 354 | 374 | 394 | 414 | 434 | 454 | 474 | 494 | 514 | 534 | 554 | |
| 450 | 224 | 254 | 284 | 314 | 344 | 374 | 404 | 434 | 464 | 494 | 524 | 554 | 584 | 614 | 644 | |
| 835 | 164 | 220 | 275 | 331 | 387 | 442 | 498 | 554 | 609 | 665 | 721 | 776 | 832 | 888 | 943 | |
| 900 | 158 | 218 | 278 | 338 | 398 | 458 | 518 | 578 | 638 | 698 | 758 | 818 | 878 | 938 | 998 | |
| 1500 | 122 | 222 | 322 | 422 | 522 | 622 | 722 | 822 | 922 | 1022 | 1122 | 1222 | 1322 | 1422 | 1522 | mW |
| 1900 | 109 | 209 | 309 | 409 | 509 | 609 | 709 | 809 | 909 | 1009 | 1109 | 1209 | 1309 | 1409 | 1509 | |
| 2450 | 96 | 196 | 296 | 396 | 496 | 596 | 696 | 796 | 896 | 996 | 1096 | 1196 | 1296 | 1396 | 1496 | |
| 3600 | 79 | 179 | 279 | 379 | 479 | 579 | 679 | 779 | 879 | 979 | 1079 | 1179 | 1279 | 1379 | 1479 | |
| 5200 | 66 | 166 | 266 | 366 | 466 | 566 | 666 | 766 | 866 | 966 | 1066 | 1166 | 1266 | 1366 | 1466 | |
| 5400 | 65 | 165 | 265 | 365 | 465 | 565 | 665 | 765 | 865 | 965 | 1065 | 1165 | 1265 | 1365 | 1465 | |
| 5800 | 62 | 162 | 262 | 362 | 462 | 562 | 662 | 762 | 862 | 962 | 1062 | 1162 | 1262 | 1362 | 1462 | |

Note that the table present above is the table of quick reference, indexing the level of power threshold with respect to the corresponding frequency. The value of the index may be deviated, and therefore, the derivation of exemption based on KDB447498 D01 is used in this test report, relevantly.

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