

# FCC RF EXPOSURE REPORT

## FCC ID: 2AXCA-K310W

**Project No.** : 2008C041  
**Equipment** : K310w Wireless Mechanical Keyboard  
**Brand Name** : DURGOD  
**Test Model** : K310w  
**Series Model** : N/A  
**Applicant** : Zhuhai Hoksi Technology CO.,LTD  
**Address** : Room803,No.3 BLDG,No.6, Pingbei 1 Rd., Nanping Technology & Industry Park, Xiangzhou St., ZhuHai, China  
**Manufacturer** : Zhuhai Hoksi Technology CO.,LTD  
**Address** : Room803,No.3 BLDG,No.6, Pingbei 1 Rd., Nanping Technology & Industry Park, Xiangzhou St., ZhuHai, China  
**Factory** : ZHUHAI ELETECH TECHNOLOGY CO.,LTD  
**Address** : 4th of LanBu Industry Complex between JinZhong Street & LanBu Rd., XiangZhou Area,ZhuHai City  
**Date of Receipt** : Aug. 13, 2020  
**Date of Test** : Sep. 14, 2020 ~ Sep. 22, 2020  
**Issued Date** : Dec. 21, 2020  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG2020081379.  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & KDB447498 D01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Certificate #5123.02

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**REPORT ISSUED HISTORY**

| Report Version | Description     | Issued Date   |
|----------------|-----------------|---------------|
| R00            | Original Issue. | Dec. 21, 2020 |

## 1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

## 2. GENERAL CONCLUSION

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  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

| Appendix A - SAR Test Exclusion Thresholds for 100 MHz - 6 GHz<br>and $\leq 50$ mm |    |    |     |     |     |     |     |     |     |     |                                       |
|--|----|----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------------------------|
| MHz  | 5  | 10 | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | mm                                    |
| 150  | 39 | 77 | 116 | 155 | 194 | 232 | 271 | 310 | 349 | 387 | SAR Test Exclusion<br>Thresholds (mW) |
| 300  | 27 | 55 | 82  | 110 | 137 | 164 | 192 | 219 | 246 | 274 |                                       |
| 450  | 22 | 45 | 67  | 89  | 112 | 134 | 157 | 179 | 201 | 224 |                                       |
| 835  | 16 | 33 | 49  | 66  | 82  | 98  | 115 | 131 | 148 | 164 |                                       |
| 900  | 16 | 32 | 47  | 63  | 79  | 95  | 111 | 126 | 142 | 158 |                                       |
| 1500   | 12 | 24 | 37  | 49  | 61  | 73  | 86  | 98  | 110 | 122 |                                       |
| 1900   | 11 | 22 | 33  | 44  | 54  | 65  | 76  | 87  | 98  | 109 |                                       |
| 2450   | 10 | 19 | 29  | 38  | 48  | 57  | 67  | 77  | 86  | 96  |                                       |
| 3600   | 8  | 16 | 24  | 32  | 40  | 47  | 55  | 63  | 71  | 79  |                                       |
| 5200   | 7  | 13 | 20  | 26  | 33  | 39  | 46  | 53  | 59  | 66  |                                       |
| 5400   | 6  | 13 | 19  | 26  | 32  | 39  | 45  | 52  | 58  | 65  |                                       |
| 5800   | 6  | 12 | 19  | 25  | 31  | 37  | 44  | 50  | 56  | 62  |                                       |

### 3. TABLE FOR FILED ANTENNA

| Ant. | Brand      | P/N                | Antenna Type | Connector | Gain (dBi) |
|------|------------|--------------------|--------------|-----------|------------|
| 1    | <b>PSA</b> | RFPCA430816IMAB301 | PCB          | IPEX      | 3.12       |

### 4. TEST RESULTS

| Tune up tolerance (dBm) |          |
|-------------------------|----------|
| LE                      | 2.4G SRD |
| ≤6.0                    | ≤5.0     |

For LE:

| Max. Output Power (dBm) | Max. Output Power (mW) | Limit (mW) |
|-------------------------|------------------------|------------|
| -6.00                   | 0.25                   | 10         |

For 2.4G SRD

| Max. Output Power (dBm) | Max. Output Power (mW) | Limit (mW) |
|-------------------------|------------------------|------------|
| -5.00                   | 0.32                   | 10         |

Note:

- (1) Output power including tune up tolerance.
- (2) The maximum measured output peak power of this EUT is 0.32 mW, less than 10mW at 5mm distance.

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold.

**End of Test Report**