



SPORTON International Inc.

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Project No: CB10410189

RF Exposure Evaluation Report

Applicant's company	Key ASIC Inc.
Applicant Address	6F, No.9, Park Avenue II, Science Park, Hsin-Chu, 300 Taiwan
FCC ID	2AEG2FCKD01U3200401
Manufacturer's company	Key ASIC Inc.
Manufacturer Address	6F, No.9, Park Avenue II, Science Park, Hsin-Chu, 300 Taiwan

Product Name	Kdrive
Brand Name	KeyASIC
Model Name	KD01U32004-01
Ref. Standard(s)	47 CFR FCC Part 2 Subpart J, section 2.1093
Received Date	Sep. 15, 2015
Final Test Date	Oct. 20, 2015
Submission Type	Original Equipment



Sam Chen

SPORTON INTERNATIONAL INC.



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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA591601	Rev. 01	Initial issue of report	Oct. 30, 2015

1. GENERAL DESCRIPTION

1.1. EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)

1.2. Table for Multiple List

The difference for each EUT is shown as below:

Brand Name	Brand Name	Model Name	Color
EUT 1	KeyASIC	KD01U32004-01	Pink
EUT 2			Yellow

Note: The difference between EUT 1 and EUT 2 is only color, there is only EUT 1 tested and recorded in this report. Below is the table for the change of the product with respect to the original one.

1.3. Testing Location

Testing Location			
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973	
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085	

2. RF EXPOSURE EVALUATION

2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2.2. SAR evaluation

- Per FCC KDB 447498 D01 v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$$

$$[\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$

- $f_{\text{(GHz)}}$ 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

Tune-up Average Power		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
(dBm)	(mW)			
9.59	9.1	5	2.412	2.83

- Per FCC KDB 447498 D01 v05r02 exclusion thresholds is $2.83 < 3$, RF exposure evaluation is not required.