



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

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				
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	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

1. 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* \leq 50 mm are determined by:

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

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

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