

Report No.: SZEM200400229906

Page: 1 of 10

## RF Exposure Evaluation Report

Application No.: SZEM2004002299CR

Applicant: Echelon Fitness Multimedia LLC

Address of Applicant: 6011 Century Oaks Drive, Chattanoog, Tennessee 37416 United States

Manufacturer: SHENZHEN KINSTONE D&T DEVELOP CO., LTD

Address of Manufacturer: 5F, A2B, XinJianXing Tech Industrial Park, Fengxin Road, Lou Cun,

Gongming Street, Guangming New Dist., Shenzhen, China

Factory: SHENZHEN KINSTONE D&T DEVELOP CO., LTD

Address of Factory: 5F, A2B, XinJianXing Tech Industrial Park, Fengxin Road, Lou Cun,

Gongming Street, Guangming New Dist., Shenzhen, China

**Equipment Under Test (EUT):** 

**EUT Name:** ECHELON 21.5 INCH SCREEN

Model No.: ECHKIN215
Trade Mark: ECHELON

FCC ID: 2AWD4-KS215A

Standards: 47 CFR PART 1.1310

47 CFR PART 2.1091

447498 D01 General RF Exposure Guidance v06

**Date of Receipt:** 2020-04-08

**Date of Test:** 2020-04-09 to 2020-06-24

**Date of Issue:** 2020-06-30

Test Result : PASS\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM200400229906

Page: 2 of 10

## 2 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2020-06-30		Original	

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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Report No.: SZEM200400229906

Page: 3 of 10

## 3 Contents

		raye
1	COVER PAGE	1
2	VERSION	2
3	CONTENTS	3
4	GENERAL INFORMATION	4
	4.1 GENERAL DESCRIPTION OF EUT	4
	4.2 TEST LOCATION	6
	4.3 Test Facility	6
	4.4 DEVIATION FROM STANDARDS	6
	4.5 ABNORMALITIES FROM STANDARD CONDITIONS	6
	<ul> <li>4.4 DEVIATION FROM STANDARDS</li></ul>	6
5	RF EXPOSURE EVALUATION	7
	5.1 RF EXPOSURE COMPLIANCE REQUIREMENT	7
	5.1.1 Limits	
	5.1.2 Test Procedure	7
	4.1.3 EUT RF EXPOSURE EVALUATION	8-10



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Report No.: SZEM200400229906

Page: 4 of 10

## 4 General Information

## 4.1 General Description of EUT

Power Supply: DC12V/5000mA by power adapter

Adapter input: AC100-240V, 50/60Hz, 1.5A

Adapter model: JHD-AD065C-120500

Cable: Power adapter cable: 2m unshielded cable without ferrite core

For BT:

Bluetooth Version: 5.0

Operation Frequency: 2402MHz to 2480MHz

Spectrum Spread Frequency Hopping Spread Spectrum(FHSS)

Technology:

Modulation Type: GFSK,  $\pi/4$ DQPSK, 8DPSK

Number of Channels: 79 Channel Spacing: 1MHz

Antenna Type: Ant1:PIFA antenna

Antenna Gain: Ant1:1.2dBi

For BLE:

Operation Frequency: 2402MHz to 2480MHz

Modulation Type: GFSK
Number of Channels: 40
Channel Spacing: 2MHz

Antenna Type: Ant1:PIFA antenna

Antenna Gain: Ant1:1.2dBi

For 2.4G WIFI

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK)

802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

Channel Spacing: 5MHz

Antenna Type: Ant1: PIFA antenna; Ant2: PIFA antenna

Antenna Gain: Ant1:1.2dBi: Ant2:1.2dBi



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Report No.: SZEM200400229906

Page: 5 of 10

For 5G WIFI

Operation Frequency:

Band	Mode	Frequency	Number of
		Range(MHz)	channels
UNII Band	IEEE 802.11a/n20/ac	5180-5240	4
1	IEEE 802.11n40/ac40	5190-5230	2
	IEEE 802.11ac80	5210	1
	IEEE 802.11a/n20/ac	5745-5825	5
UNII Band	IEEE 802.11n40/ac40	5755-5795	2
III	IEEE 802.11ac80	5775	1

Modulation Type: 802.11a/n: OFDM(BPSK/QPSK/16QAM/64QAM)

802.11ac: OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)

TPC Function: Not support

Antenna Type: Ant1: PIFA antenna; Ant2: PIFA antenna

Antenna Gain: Ant1:1.6dBi; Ant2:1.6dBi

S/N: ECHKS21500000

Software version: Android 9.0
Hardware version: AD-Z33P-V1.0



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Report No.: SZEM200400229906

Page: 6 of 10

### 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

## 4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.4 Deviation from Standards

None.

### 4.5 Abnormalities from Standard Conditions

None

## 4.6 Other Information Requested by the Customer

None.



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Report No.: SZEM200400229906

Page: 7 of 10

## 5 RF Exposure Evaluation

## 5.1 RF Exposure Compliance Requirement

### **5.1.1 Limits**

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Table 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
(A) Limits for Occupational/Controlled Exposures							
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6			
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure				
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30 30			

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout\*G)/(4\* Pi \* R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

#### 5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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Report No.: SZEM200400229906

Page: 8 of 10

### 4.1.3 EUT RF Exposure Evaluation

For BT:

Antenna Gain: 1.2dBi (ant1)

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.318 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm <sup>2</sup> )		
2441	7.42	5.52	0.0014	1.0	PASS

Note: Refer to report No. SZEM200400229902 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

#### For BLE:

Antenna Gain: 1.2dBi (ant1)

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.318 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm <sup>2</sup> )		
2440	7.61	5.77	0.0015	1.0	PASS

Note: Refer to report No. SZEM200400229903 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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Report No.: SZEM200400229906

Page: 9 of 10

### For 2.4G:

Antenna Gain: ant1:1.2dBi; ant2:1.2dBi (directional gain: 4.21dBi)

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.318(2.636 for directional gain) in

linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

#### Standard-alone:(ant1)

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm²)		
2462	19.6	91.20	0.0239	1.0	PASS

#### Simultaneous transmission:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm²)		
2437	22.23	167.11	0.0876	1.0	PASS

Note: Refer to report No. SZEM200400229904 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

#### For 5G:

Antenna Gain: ant1:1.6dBi; ant2:1.6dBi (directional gain: 4.61dBi)

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.445(2.891 for directional gain) in

linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

### Standard-alone:(ant1 & ant2 is the same)

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm²)		
5825	17.47	55.85	0.0161	1.0	PASS



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Report No.: SZEM200400229906

Page: 10 of 10

#### Simultaneous transmission:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm²)		
5825	20.34	108.14	0.0622	1.0	PASS

Note: Refer to report No. SZEM200400229905 for EUT test Max Conducted Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -



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