

Report No.: GZCR211102137107 Page: 1 of 10 FCC ID: 2AWD4-ECH8S24

# **RF EXPOSURE EVALUATION REPORT**

Application No.:	GZCR2111021371HS				
Applicant:	Echelon Fitness Multimedia, LLC				
Address of Applicant:	605 Chestnut Street Suite 700 Chattanooga, TN 37450 USA				
Manufacturer:	XIAMEN ZHOULONG SPORTING GOODS CO., LTD.				
Address of Manufacturer:	32-36 Rongxi Road, Tong'an District, Xiamen, Fujian, China, 361100				
Factory:	XIAMEN ZHOULONG SPORTING GOODS CO., LTD.				
Address of Factory:	32-36 Rongxi Road, Tong'an District, Xiamen, Fujian, China, 361100				
Equipment Under Test (EUT)	:				
EUT Name:	Echelon Connect EX-8s				
Model No.:	ECHEX-8s-24c				
Trade Mark:	Echelon				
Standard(s) :	47 CFR Part 1.1310				
	KDB447498 D01 General RF Exposure Guidance v06				
Date of Receipt:	2021-11-12				
Date of Evaluation:	2022-01-04 to 2022-01-04				
Date of Issue:	2022-01-06				
Evaluation Result:	Pass*				

\* In the configuration evaluated, the EUT complied with the standards specified above.

oke. Jun

Kobe Jian EMC Laboratory Manager



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Revision Record								
Version	Report No.	Date	Remark					
01	GZCR211102137106	2022-01-06	Original					

Authorized for issue by:		
	Jim Li	
	Jim Li/Project Engineer	
	Ridey Lin	
	Ricky Liu/Reviewer	



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#### **Evaluation Summary** 2

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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#### 4 **General Information**

#### 4.1 Details of E.U.T.

Power supply:	Switching Adapter					
	Model: SOY-1200800-410-B					
	Input: AC 100-240V, 50/60Hz, 1.8A Max.					
	Output: DC 12.0V, 8.0A, 96.0W					
Test voltage:	AC 120V, 60Hz					
Cable(s):	Adapter AC input cable, 3 wires, 1.8m, unshielded.					
	Adapter DC output cable, 2 wires, 1.2m, unshielded.					
	DC IN port for power supply.					
	Type-C port for upgrade firmware.					
	Audio Jack port for audio output.					
	HDMI port(reserve).					
	USB 2.0 port x1 for data transmission.					
	USB 3.0 port x1 for data transmission.					
	SD CARD slot x1					
	RJ45 Port x1 for network connection.					
	3.5mm Audio Jack Port for audio output.					
RF Character:	Refer to report GZCR211102137102 for 2.4G BT BLE.					
	Refer to report GZCR211102137103 for 2.4G BT Classic.					
	Refer to report GZCR211102137104 for 2.4G Wi-Fi.					
	Refer to report GZCR211102137105 for 5G Wi-Fi.					

### 4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Fax: +86 20 82075059 Tel: +86 20 82155555 No tests were sub-contracted.



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#### 4.3 Facility

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

#### • NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

#### SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

#### CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

 FCC Recognized Accredited Test Firm(Registration No.: 486818) SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully

described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

#### ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

#### VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber. 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

#### CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.4 Deviation from Standards

None

### 4.5 Abnormalities from Standard Conditions

None



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# **5** Technical Requirements Specification

#### 5.1 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 5.2 RF Exposure Evaluation

#### 5.2.1 Limit & Test Method

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)

Frequency range (MHz)	Electric field Magnetic field strength strength (V/m) (A/m)		Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)				
(A) Lim	its for Occupational	/Controlled Exposu	res					
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 6				
(B) Limits for General Population/Uncontrolled Exposure								

TABLE 1-LIM	ITS FOR MAXIMU	M PERMISSIBLE	EXPOSURE	(MPE)
-------------	----------------	---------------	----------	-------

(B) Limits for General Population/Uncontrolled Exposure								
0.3–1.34	614	1.63	*(100)	30				
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30				
30–300	27.5	0.073	0.2	30				
300–1500			f/1500	30				
1500-100,000			1.0	30				

#### F= Frequency in MHz

Friis Formula

Friis transmission formula:  $P_d = (P_{out}^*G)/(4^* P_i^* R^2)$ 

Where

 $P_d$  = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

P<sub>i</sub> = 3.1416

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

 $P_d$  id the limit of MPE, 1 mW/cm<sup>2</sup>. 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.



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#### 5.2.2 Conclusion

Normal use condition for Distance between antenna and body:	≥ 20 cm declared by applicant.
Remark:	1. The device can not transmit 2.4G BT BLE and classic, 2.4G Wi-Fi and 5G Wi-Fi at the same time on the pad part, but can only transmit BT and Wi Fi.
	2. The BT BLE of the device in the body part can be transmitted simultaneously with the wireless technology of the pad.
	0 dBi declared by applicant for BT BLE(Body)
Ant Coin:	3 dBi declared by applicant for BT Classic & BLE(PAD).
Ant Gain.	2 dBi declared by applicant for 2.4G Wi-Fi both ant1 & ant2(PAD).
	2 dBi declared by applicant for 5G Wi-Fi both ant1 & ant2(PAD).

#### For Bluetooth BLE(For Body)

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2402	1	-8.84	0.131	0.00004	1	Complies
2440	1	-8.88	0.129	0.00004	1	Complies
2480	1	-9.97	0.101	0.00003	1	Complies

#### For Bluetooth BLE(For PAD)

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2402	1.995	4.92	3.105	0.00098	1	Complies
2440	1.995	5.48	3.532	0.00111	1	Complies
2480	1.995	6.12	4.093	0.00129	1	Complies

#### For Bluetooth Classic(For PAD)

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2402	1.995	7.23	5.284	0.00167	1	Complies
2440	1.995	7.33	5.408	0.00170	1	Complies
2480	1.995	7.52	5.649	0.00178	1	Complies



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#### For 2.4 GHz Wi-Fi(For PAD)

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result				
11B										
2412	1.995	19.20	83.176	0.02623	1	Complies				
2442	1.995	19.27	84.528	0.02665	1	Complies				
2462	1.995	18.46	70.146	0.02212	1	Complies				
11G										
2412	1.995	19.96	99.083	0.03124	1	Complies				
2442	1.995	19.57	90.573	0.02856	1	Complies				
2462	1.995	19.18	82.794	0.02610	1	Complies				
11N20										
2412	1.995	20.52	112.720	0.03554	1	Complies				
2442	1.995	20.09	102.094	0.03219	1	Complies				
2462	1.995	19.87	97.051	0.03060	1	Complies				

#### For 5 GHz Wi-Fi(For PAD)

检验检测专用章 spection & Testing Services

Guanozho

l aboratory.

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result				
11A										
5580	1.995	17.10	51.286	0.01617	1	Complies				
11N20										
5785	1.995	21.01	126.183	0.03979	1	Complies				
11N40										
5230	1.995	19.57	90.573	0.02856	1	Complies				
11AC(VHT20)										
5180	1.995	18.34	68.234	0.02152	1	Complies				
11AC(VHT40)										
5190	1.995	17.47	55.847	0.01761	1	Complies				
11AC(VHT80)										
5210	1.995	17.52	56.494	0.01781	1	Complies				

Simultaneous transmission MPE test is not required, because the Max. sum of the MPE ratios for all wireless function is 0.00002/1 + 0.00162/1 + 0.00224/1 + 0.04474/1 + 0.05009/1 = 0.09871 < 1.0

The EUT meet the Exemption Limits for Routine Evaluation – SAR Evaluation, so no SAR evaluation is required for the EUT.

Note: Refer to report No. GZCR211102137102, GZCR211102137103, GZCR211102137104 & GZCR211102137105 for EUT test Max Conducted Peak Output Power value.



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#### **EUT Constructional Details (EUT Photos)** 6

Refer to External and Internal Photos for GZCR2111021371HS

- End of the Report -



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