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Telephone: +86 (0) 20 82155555 Fax: +86 (0) 20 82075059 Email: ee.guangzhou@sgs.com Report No.: GZEM181000127206

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TEST REPORT

Application No.: GZEM1810001272CR **Applicant:** Hex Technology Limited

Address of Applicant: Unit 311A, 3/F, IC Development Centre, No. 6 Science Park West Avenue,

Science Park, Sha Tin, Hong Kong

Manufacturer: Beijing Pinecone Electronics Co., Ltd.

Address of Manufacturer: Cell C, Building C Lin NO.66, Zhufang Road, Qinghe, Haidian, Beijing

Factory: Inventec Appliance (Jiangning) Corporation

Address of Factory: 133, Jiangjun Road, Jiangning Economic and Technological Development

Zone, Nanjing 211153, P.R.China

Equipment Under Test (EUT):

EUT Name: HERELINK

Model No.: HERELINK Air Unit: HX4-06074

HERELINK Controller Unit: HX4-06075

Trade Mark: HEREL I NK

Standard(s): 47 CFR Part 1.1307, Part 1.1310

 Date of Receipt:
 2018-10-15

 Date of Test:
 2019-07-18

 Date of Issue:
 2019-07-19

Test Result: Pass*

Kuhe . Jian

Kobe Jian EMC Laboratory Manager

检验检测专用章 spection & Testing Services

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2019-07-19		Original		

Authorized for issue by:			
Tested By	Curry Wu	2019-07-18	
	Curry_Wu /Project Engineer	Date	
Checked By	Riday Liu	2019-07-19	
	Ricky_Liu /Reviewer	Date	



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2 Test Summary

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
RF Exposure	47 CFR Part 1.1307, Part 1.1310	CFR 47 Part 1.1310	CFR 47 Part 1.1310	Pass			



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4 General Information

4.1 Details of E.U.T.

Power Supply: For Controller Unit:

DC 5V by USB port for charging

DC 3.6V rechargeable battery for working

For Air Unit: DC5-12V

Test Voltage: AC 120V 60Hz Charing& DC3.6V working for Controller Unit

DC 12V for Air Unit

Cable: About 1.5m unscreened USB cable

About 0.5m screened HDMI cable

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Radio Frequency	±5.5 x 10 ⁻⁸		
2	Duty cycle	±0.57%		
3	Occupied Bandwidth	±3%		
4	RF Conducted power	±0.68dB		
5	RF Power Density	±1.50dB		
6	Conducted Spurious Emissions	±1.04dB		
7	RF Radiated Power	±4.5dB (below 1GHz)		
1	nr naulateu rowei	±4.8dB (above 1GHz)		
8	Radiated Spurious Emission Test	±4.5dB (30MHz-1GHz)		
0	hadiated Spurious Effission Test	±4.8dB (1GHz-18GHz)		
9	Temperature	±0.4℃		
10	Humidity	±1.3%		
11	Supply Voltages	±1.5%		
12	Time	±3%		

4.4 Test 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

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

The test 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 C-Tick mark as a result of our NVLAP accreditation.

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 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

◆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, Jul 13, 2017.

● Industry Canada (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-10449 and T-11179)

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	M8.0	EMC2136	2017-11-02	2019-11-01	
MI CABLE	SGS	M8.0	EMC2137	2017-11-02	2019-11-01	

General used equipment						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19	
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18	



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6 Radio Spectrum Technical Requirement

6.1 RF Exposure

6.1.1 Test Requirement:

CFR 47 Part 1.1310

Limit:

According to 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.

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:

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

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation

distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

6.1.2 Conclusion

For 2.4GHz self-defined

The Max Conducted Peak Output Power is 3.03dBm in Middle channel(2.462GHz);

2.53dBm logarithmic terms convert to numeric result is nearly 1.791mW

According to the Max Conducted Peak Output Power test result:

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

General RF Exposure = $(1.791 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.462 \text{GHz}} = 0.630 \text{ }\bigcirc$

SAR requirement:

S= 3.0 ②;

(1) < (2).



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For 2.4GHz WiFi:

The Max Conducted Peak Output Power is 7.98dBm in Middle channel(2.442GHz);

7.98dBm logarithmic terms convert to numeric result is nearly 6.281mW

According to the Max Conducted Peak Output Power test result:

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

General RF Exposure = $(6.281 \text{mW} / 5 \text{ mm}) \times \sqrt{2.442 \text{GHz}} = 1.963 \text{ }\bigcirc$

SAR requirement:

S= 3.0

 \bigcirc

For 5GHz WiFi:

The Max Conducted Peak Output Power is 6.975dBm in lowest channel(5.180GHz);

6.975dBm logarithmic terms convert to numeric result is nearly 4.983mW

According to the Max Conducted Peak Output Power test result:

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

General RF Exposure = $(4.983 \text{mW} / 5 \text{ mm}) \times \sqrt{5.180 \text{GHz}} = 2.268 \text{ }\bigcirc$

SAR requirement:

S = 3.0

②;

2;

(1) < (2)

The 2.4G WIFI and 5G WIFI can't simultaneous emission, the worst case for exposure is 2.4G self-defined band simultaneous emission with 2.4G WIFI or 2.4G self-defined band simultaneous emission with 5.0 G WIFI:

 $S_{2.4G+2.4G}$ Wifi=0.630/3 + 1.963/3 = 0.86 < 1.0

 $S_{2.4G+5G \text{ wifi}} = 0.630/3 + 2.268/3 = 0.96 < 1.0$

So, SAR test is not required.



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7 Photographs

7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1810001272CR

-- End of Report--



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