



## RF EXPOSURE EVALUATION REPORT

**Application No.:** GZEM2009015347CR  
**Applicant:** Seamless Integration Electronics Technology Co., Ltd  
**Address of Applicant:** Room 402, Bldg D., No.1 Nanxiang zhi Rd, Huangpu Dis., Guangzhou, China.  
**Manufacturer:** Seamless Integration Electronics Technology Co., Ltd  
**Address of Manufacturer:** Room 402, Bldg D., No.1 Nanxiang zhi Rd, Huangpu Dis., Guangzhou, China.  
**Factory:** Seamless Integration Electronics Technology Co., Ltd  
**Address of Factory:** Room 402, Bldg D., No.1 Nanxiang zhi Rd, Huangpu Dis., Guangzhou, China.  
**Equipment Under Test (EUT):**

**FCC ID:** 2AC3EG1C96A-G1C160A

**EUT Name:** Car in-dash Multimedia Navigation

**Model No.:** G1C096A, G1C129A, G1C097A, G1C130A, G1C098A, G1C131A, G1C099A, G1C132A, G1C100A, G1C133A, G1C101A, G1C134A, G1C102A, G1C135A, G1C103A, G1C136A, G1C104A, G1C137A, G1C105A, G1C138A, G1C106A, G1C139A, G1C107A, G1C140A, G1C108A, G1C141A, G1C109A, G1C142A, G1C110A, G1C143A, G1C111A, G1C144A, G1C112A, G1C145A, G1C113A, G1C146A, G1C114A, G1C147A, G1C115A, G1C148A, G1C116A, G1C149A, G1C117A, G1C150A, G1C118A, G1C151A, G1C119A, G1C152A, G1C120A, G1C153A, G1C121A, G1C154A, G1C122A, G1C155A, G1C123A, G1C156A, G1C124A, G1C157A, G1C125A, G1C158A, G1C126A, G1C159A, G1C127A, G1C160A, G1C128A □

□

Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade Mark:** Linkswell  
**Standard(s):** 47 CFR Part 1.1307, Part 1.1310  
**Date of Receipt:** 2020-09-25  
**Date of Evaluation:** 2020-10-19 to 2020-12-01  
**Date of Issue:** 2020-12-16

|                           |              |
|---------------------------|--------------|
| <b>Evaluation Result:</b> | <b>Pass*</b> |
|---------------------------|--------------|

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

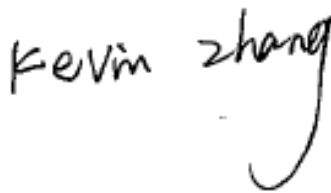
Kobe Jian

EMC Laboratory Manager



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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2020-12-16 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                                                                                     |                                  |
|--------------------------|--|-------------------------------------------------------------------------------------|----------------------------------|
| Authorized for issue by: |  |                                                                                     |                                  |
| Evaluated By             |  |  |                                  |
|                          |  | Kevin_Zhang /Project Engineer                                                       | 2020-10-19 to 2020-12-01<br>Date |
| Checked By               |  |  |                                  |
|                          |  | Ricky_Liu /Reviewer                                                                 | 2020-12-16<br>Date               |



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## 2 Evaluation Summary

| Radio Spectrum Technical Requirement |                                    |                    |                    |        |
|--------------------------------------|------------------------------------|--------------------|--------------------|--------|
| Item                                 | Standard                           | Method             | Requirement        | Result |
| RF Exposure                          | 47 CFR Part 1.1307,<br>Part 1.1310 | CFR 47 Part 1.1310 | CFR 47 Part 1.1310 | Pass   |

### Declaration of EUT Family Grouping:

Model No.: G1C096A, G1C129A, G1C097A, G1C130A, G1C098A, G1C131A, G1C099A, G1C132A, G1C100A, G1C133A, G1C101A, G1C134A, G1C102A, G1C135A, G1C103A, G1C136A, G1C104A, G1C137A, G1C105A, G1C138A, G1C106A, G1C139A, G1C107A, G1C140A, G1C108A, G1C141A, G1C109A, G1C142A, G1C110A, G1C143A, G1C111A, G1C144A, G1C112A, G1C145A, G1C113A, G1C146A, G1C114A, G1C147A, G1C115A, G1C148A, G1C116A, G1C149A, G1C117A, G1C150A, G1C118A, G1C151A, G1C119A, G1C152A, G1C120A, G1C153A, G1C121A, G1C154A, G1C122A, G1C155A, G1C123A, G1C156A, G1C124A, G1C157A, G1C125A, G1C158A, G1C126A, G1C159A, G1C127A, G1C160A, G1C128A.

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the plastic frame.

Therefore only one model **G1C098A** was evaluated in this report.



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## 4 General Information

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

|                             |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Power Supply:               | DC 14.5 V                                                                                                                        |
| Cable:                      | DC input cables, HDMI IN ports, HDMI OUT ports                                                                                   |
| Function:                   | Wi-Fi antenna ports with fixed antenna, GPS antenna ports with fixed antenna, Camera input ports, USB ports, AM/FM antenna ports |
| Antenna Number:             | Multiple Media & Navigation Equipment use in vehicle                                                                             |
| Hardware:                   | 3 (1 for BT double mode, 1 for Wi-Fi & 1 for GPS receiving only)                                                                 |
| Software:                   | 9608_TH V02_0507                                                                                                                 |
| S/N:                        | SV01                                                                                                                             |
| Test Software               | G1C098AH06E0306012122001                                                                                                         |
| BT Version                  | BlueTest3.exe                                                                                                                    |
| For BT BLE                  | V 5.0 for classic and BLE 1M only declared by applicant                                                                          |
| Antenna Gain:               | 0 dBi declared by applicant                                                                                                      |
| Antenna Type:               | Integral Antenna                                                                                                                 |
| Channel Spacing:            | 2MHz                                                                                                                             |
| Modulation Type:            | GFSK                                                                                                                             |
| Number of Channels:         | 40                                                                                                                               |
| Operation Frequency:        | 2402MHz to 2480MHz                                                                                                               |
| Power Setting               | 8 dBm can not be changed by user                                                                                                 |
| For Wi-Fi                   |                                                                                                                                  |
| Antenna Gain:               | 0 dBi declared by applicant                                                                                                      |
| Antenna Type:               | Integral Antenna                                                                                                                 |
| Channel Spacing:            | 5MHz                                                                                                                             |
| 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                                                                                                             |
|                             | 802.11n(HT40):7                                                                                                                  |
| Operation Frequency:        | 802.11b/g/n(HT20): 2412MHz to 2462MHz                                                                                            |
|                             | 802.11n(HT40): 2422MHz to 2452MHz                                                                                                |
| Power Setting               | 18 dBm can not be changed by user                                                                                                |
| For BT Classic              |                                                                                                                                  |
| Antenna Gain:               | 0 dBi declared by applicant                                                                                                      |
| Antenna Type:               | Integral Antenna                                                                                                                 |
| Channel Spacing:            | 1MHz                                                                                                                             |
| Modulation Type:            | GFSK, $\pi/4$ DQPSK, 8DPSK                                                                                                       |
| Number of Channels:         | 79                                                                                                                               |
| Operation Frequency:        | 2402MHz to 2480MHz                                                                                                               |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum (FHSS)                                                                                         |
| Power Setting               | 6 dBm can not be changed by user                                                                                                 |



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## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 198 Kezhu Road, Sciotech 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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#### 4.4 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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#### 4.5 Deviation from Standards

None

#### 4.6 Abnormalities from Standard Conditions

None



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## 5 Radio Spectrum Technical Requirement

### 5.1 RF Exposure

#### 5.1.1 Test Requirement:

CFR 47 Part 1.1310

Limit:

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/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposure</b>         |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *100                                | 6                        |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *900/f <sup>2</sup>                 | 6                        |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1,500                                                      |                               |                               | f/300                               | 6                        |
| 1,500-100,000                                                  |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 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                       |
| 300-1,500                                                      |                               |                               | f/1500                              | 30                       |
| 1,500-100,000                                                  |                               |                               | 1.0                                 | 30                       |
| f = frequency in MHz                                           |                               |                               |                                     |                          |
| * = Plane-wave equivalent power density                        |                               |                               |                                     |                          |

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

S = power density (mW/cm<sup>2</sup>)

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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## 5.1.2 Conclusion

Normal use condition for  
Distance between antenna and body: 20cm declared by applicant

For Bluetooth BLE

| Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|-----------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 2402            | 1                      | 7.36                    | 5.445                  | 0.00108                                 | 1                                                | Complies    |
| 2440            | 1                      | 7.56                    | 5.702                  | 0.00113                                 | 1                                                | Complies    |
| 2480            | 1                      | 7.49                    | 5.610                  | 0.00112                                 | 1                                                | Complies    |

For Bluetooth Classic

| Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|-----------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 2402            | 1                      | 5.28                    | 3.373                  | 0.00067                                 | 1                                                | Complies    |
| 2441            | 1                      | 6.14                    | 4.111                  | 0.00082                                 | 1                                                | Complies    |
| 2480            | 1                      | 5.85                    | 3.846                  | 0.00077                                 | 1                                                | Complies    |

For 2.4 GHz Wi-Fi

| Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|-----------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 11B             |                        |                         |                        |                                         |                                                  |             |
| 2412            | 1                      | 18.77                   | 75.336                 | 0.01499                                 | 1                                                | Complies    |
| 2442            | 1                      | 18.78                   | 75.509                 | 0.01502                                 | 1                                                | Complies    |
| 2462            | 1                      | 18.38                   | 68.865                 | 0.01370                                 | 1                                                | Complies    |
| 11G             |                        |                         |                        |                                         |                                                  |             |
| 2412            | 1                      | 15.36                   | 34.356                 | 0.00683                                 | 1                                                | Complies    |
| 2442            | 1                      | 15.25                   | 33.497                 | 0.00666                                 | 1                                                | Complies    |
| 2462            | 1                      | 14.68                   | 29.376                 | 0.00584                                 | 1                                                | Complies    |
| 11N20           |                        |                         |                        |                                         |                                                  |             |
| 2412            | 1                      | 14.54                   | 28.445                 | 0.00566                                 | 1                                                | Complies    |
| 2442            | 1                      | 13.95                   | 24.831                 | 0.00494                                 | 1                                                | Complies    |
| 2462            | 1                      | 15.05                   | 31.989                 | 0.00636                                 | 1                                                | Complies    |
| 11N40           |                        |                         |                        |                                         |                                                  |             |
| 2422            | 1                      | 13.14                   | 20.606                 | 0.00410                                 | 1                                                | Complies    |
| 2442            | 1                      | 13.35                   | 21.627                 | 0.00430                                 | 1                                                | Complies    |
| 2452            | 1                      | 13.29                   | 21.330                 | 0.00424                                 | 1                                                | Complies    |

The Bluetooth and Wi-Fi can be transmitted together, the result is

$$0.00113/1 + 0.00082/1 + 0.01502/1 = 0.01697 < 1.0$$

So SAR report is not required.



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## 6 Photographs

### 6.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM2009015347CR.

--End of Report--



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