

RF Exposure Evaluation Report

Report No.: JYTSZ-R12-2401186

Applicant: FoundationLogic Innovation Corp

Address of Applicant: 1st Floor, Columbus Centre, PO Box 2283, Road Town Tortola
VG 1110, British Virgin Islands

Equipment Under Test (EUT)

Product Name: SERVER

Model No.: DG Home 1

Trade mark: ELPHAPEX

FCC ID: 2BLIKDGHOM1

Applicable standards: FCC CFR Title 47 Part 2 (§2.1091)

Date of sample receipt: 27 Sep., 2024

Date of Test: 28 Sep., to 04 Nov., 2024

Date of report issue: 05 Nov., 2024

Test Result: PASS

Project by: _____

Date: _____ 05 Nov., 2024

Reviewed by: _____

Date: _____ 05 Nov., 2024

Approved by: _____

Date: _____ 05 Nov., 2024

Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	05 Nov., 2024	Original

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3 General Information

3.1 Client Information

Applicant:	FoundationLogic Innovation Corp
Address:	1st Floor, Columbus Centre, PO Box 2283, Road Town Tortola VG 1110, British Virgin Islands
Manufacturer:	FoundationLogic Innovation Corp
Address:	1st Floor, Columbus Centre, PO Box 2283, Road Town Tortola VG 1110, British Virgin Islands
Factory 1:	Shenzhen Sea Star Industry Co., Ltd.
Address 1:	Seastar Jinlong factory, No.10, 1st Jinlong Road, Baolong Subdistrict, Longgang District, Shenzhen, China
Factory 2:	INNOSPEC SDN BHD
Address 2:	Plot 83. MEDAN SUNGAI KLUANG, BAYAN LEPAS INDUSTRIAL PARK , PHASE 4, 11900 BAYAN LEPAS, PENANG , MALAYSIA.

3.2 General Description of E.U.T.

Product Name:	SERVER
Model No.:	DG Home 1
Operation Frequency:	2.4G Wi-Fi: 2412MHz~2462MHz
Modulation technology:	802.11b: DSSS, 802.11g/n: OFDM
Antenna Type:	External Antenna
Antenna gain:	1.5 dBi (declare by applicant)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Operating Modes

Operating mode	Detail description
2.4G WIFI mode	Keep the EUT in continuously transmitting in 2.4G WIFI mode

3.4 Additions to, deviations, or exclusions from the method

No

3.5 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4 Technical Requirements Specification

4.1 Limits

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 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(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 ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

4.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

4.3 Result

Frequency (MHz)	Maximum Output power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm ²)	Limits for General Population/ Uncontrolled Exposure (mW/cm ²)
2.4G Wi-Fi							
2462	16.04	40.179	1.5	1.41	20.00	0.01	1.0

Note: Just the worst case mode was shown in report.

4.4 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

-----End of report-----