

TEST REPORT

Product Name : LED Flexible Display Screen

Model Number : BP-P4-64192-FSB-1921M3-05D-031, BP-P4-1632-FSB-1921M3-05C-011, BP-P4-1664-FSB-1921M3-05C-011, BP-P4-2464-FSB-1921M3-05C-011, BP-P4-3248-FSB-1921M3-05C-011, BP-P4-3296-FSB-1921M3-05C-011, BP-P4-6496-FSB-1921M3-05C-011, BP-P4-32144-FSB-1921M3-05C-021, BP-P4-32192-FSB-1921M3-05D-021, BP-P4-32240-FSB-1921M3-05D-021, BP-P6-1696-FSB-1921M3-05C-011, BP-P6-2496-FSB-1921M3-05C-011, BP-P6-3248-FSB-1921M3-05C-011, BP-P6-3296-FSB-1921M3-05C-011, BP-P6-16192-FSB-1921M3-05D-021, BP-P6-32144-FSB-1921M3-05C-011, BP-P6-32192-FSB-1921M3-05D-021, BP-P6-42150-FSB-1921M3-05D-021

FCC ID : 2BPS9-GL-BP0760

Prepared for Address : General Lighting Electronic Co., Ltd.
: Plant No. 51, Xihuan 5th Road, Shatian Village, South District, Zhongshan City, Guangdong Province, China.

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Report Number : ENS2503180196W00902R
Date of sample receipt : March 18, 2025
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Date of issue : May 16, 2025

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1. TEST RESULT CERTIFICATION

Applicant : General Lighting Electronic Co., Ltd.
 Address : Plant No. 51, Xihuan 5th Road, Shatian Village, South District, Zhongshan City, Guangdong Province, China.
 Manufacturer : General Lighting Electronic Co., Ltd.
 Address : Plant No. 51, Xihuan 5th Road, Shatian Village, South District, Zhongshan City, Guangdong Province, China.
 Factory : General Lighting Electronic Co., Ltd.
 Address : Plant No. 51, Xihuan 5th Road, Shatian Village, South District, Zhongshan City, Guangdong Province, China.
 EUT : LED Flexible Display Screen
 Model Name : BP-P4-64192-FSB-1921M3-05D-031, BP-P4-1632-FSB-1921M3-05C-011, BP-P4-1664-FSB-1921M3-05C-011, BP-P4-2464-FSB-1921M3-05C-011, BP-P4-3248-FSB-1921M3-05C-011, BP-P4-3296-FSB-1921M3-05C-011, BP-P4-6496-FSB-1921M3-05C-011, BP-P4-32144-FSB-1921M3-05C-021, BP-P4-32192-FSB-1921M3-05D-021, BP-P4-32240-FSB-1921M3-05D-021, BP-P6-1696-FSB-1921M3-05C-011, BP-P6-2496-FSB-1921M3-05C-011, BP-P6-3248-FSB-1921M3-05C-011, BP-P6-3296-FSB-1921M3-05C-011, BP-P6-16192-FSB-1921M3-05D-021, BP-P6-32144-FSB-1921M3-05C-011, BP-P6-32192-FSB-1921M3-05D-021, BP-P6-42150-FSB-1921M3-05D-021
 Trademark : Popusign

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD.. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : March 18, 2025 to May 16, 2025

Prepared by :

Una Yu

Una Yu /Editor

Reviewer :

Joe Xia

Joe Xia/Supervisor

Approve & Authorized Signer :

Lisa Wang
Lisa Wang/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2503250083E08902R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	LED Flexible Display Screen
Model Number:	BP-P4-64192-FSB-1921M3-05D-031, BP-P4-1632-FSB-1921M3-05C-011, BP-P4-1664-FSB-1921M3-05C-011, BP-P4-2464-FSB-1921M3-05C-011, BP-P4-3248-FSB-1921M3-05C-011, BP-P4-3296-FSB-1921M3-05C-011, BP-P4-6496-FSB-1921M3-05C-011, BP-P4-32144-FSB-1921M3-05C-021, BP-P4-32192-FSB-1921M3-05D-021, BP-P4-32240-FSB-1921M3-05D-021, BP-P6-1696-FSB-1921M3-05C-011, BP-P6-2496-FSB-1921M3-05C-011, BP-P6-3248-FSB-1921M3-05C-011, BP-P6-3296-FSB-1921M3-05C-011, BP-P6-16192-FSB-1921M3-05D-021, BP-P6-32144-FSB-1921M3-05C-011, BP-P6-32192-FSB-1921M3-05D-021, BP-P6-42150-FSB-1921M3-05D-021 (Note1: All models have the same wireless chip and similar circuit mechanism, only the size and rated power are different. Here, BP-P4-64192-FSB-1921M3-05D-031 is selected to complete all the tests. Note2: Input: 5Vdc, 15W for BP-P4-1632-FSB-1921M3-05C-011, BP-P4-1664-FSB-1921M3-05C-011, BP-P4-2464-FSB-1921M3-05C-011, BP-P4-3248-FSB-1921M3-05C-011, BP-P4-3296-FSB-1921M3-05C-011, BP-P4-6496-FSB-1921M3-05C-011, BP-P6-1696-FSB-1921M3-05C-011, BP-P6-2496-FSB-1921M3-05C-011, BP-P6-3248-FSB-1921M3-05C-011, BP-P6-3296-FSB-1921M3-05C-011, BP-P6-32144-FSB-1921M3-05C-011; 5Vdc, 30W for BP-P4-32192-FSB-1921M3-05D-021, BP-P4-32144-FSB-1921M3-05C-021, BP-P4-32240-FSB-1921M3-05D-021, BP-P6-16192-FSB-1921M3-05D-021, BP-P6-32192-FSB-1921M3-05D-021, BP-P6-42150-FSB-1921M3-05D-021; 5Vdc, 60W for BP-P4-64192-FSB-1921M3-05D-031)
Sample:	1#
Data Rate:	1Mbps for GFSK modulation 2Mbps for GFSK modulation
Modulation:	GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	40 channels
Transmit Power Max:	0.04 dBm(0.001009 W)
Antenna Gain:	2.338 dBi
Power supply:	DC5V from USB, AC 100-240V 50/60Hz from Adapter
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement

RF EXPOSURE EVALUATION

According to FCC 1.1310: 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 §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

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

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

4. Measurement Result

Antenna gain:
2.4G: 2.338 dBi

BLE

Mode	Frequency (MHz)	Output Power(dBm)	E.I.R.P(dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)
1M	2402	-1.91	0.428	0±1	1	1.26	0.000429	1
	2440	-0.84	1.498	1±1	2	1.58	0.000540	1
	2480	-0.04	2.298	2±1	3	2.00	0.000680	1
2M	2402	-1.92	0.418	0±1	1	1.26	0.000429	1
	2440	-0.82	1.518	1±1	2	1.58	0.000540	1
	2480	0.04	2.378	2±1	3	2.00	0.000680	1

According to KDB 447498, no stand-alone required for zigbee & BLE antenna, and no simultaneous SAR measurement is required.

*** End of Report ***