

HEALTH TEST REPORT

For

Shenzhen EBELONG Technology Co., Ltd

Single channel dimming controller

Test Model: ERC1201

Additional model: Please refer to page 5

Prepared for : Shenzhen EBELONG Technology Co., Ltd
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Xiangxing Road, Baoan District, Shenzhen, Guangdong, China

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Date of receipt of test sample : October 16, 2020
Number of tested samples : 1
Serial number : Prototype
Date of Test : October 16, 2020 ~ October 23, 2020
Date of Report : October 28, 2020

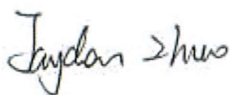


HEALTH TEST REPORT**EN 50663: 2017**

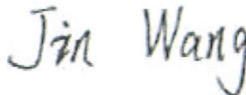
Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

Report Reference No. : **LCS200717063AED****Date of Issue**..... : October 28, 2020**Testing Laboratory Name**..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.****Address**..... : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, ChinaFull application of Harmonised standards ☒**Testing Location/ Procedure**..... : Partial application of Harmonised standards ☐Other standard testing method ☐**Applicant's Name**..... : **Shenzhen EBELONG Technology Co., Ltd****Address**..... : 4th Floor, Building 2, Hengmingzhu Shajing Industrial Park, Xiangxing Road, Baoan District, Shenzhen, Guangdong, China**Test Specification****Standard**..... : EN 50663: 2017**Test Report Form No.** : LCSEMC-1.0**TRF Originator**..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF**..... : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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Test Item Description..... : **Single channel dimming controller****Trade Mark**..... : EBELONG**Test Model**..... : ERC1201**Ratings** : Please refer to page 5**Result** : **Positive****Compiled by:**


Jayden Zhuo/ Administrators

Supervised by:


Jin Wang/ Technique principal

Approved by:

Gavin Liang/ Manager

HEALTH --TEST REPORT**Test Report No. : LCS200717063AED**October 28, 2020
Date of issue

Test Model : ERC1201

EUT..... : Single channel dimming controller

Applicant..... : Shenzhen EBELONG Technology Co., LtdAddress..... : 4th Floor, Building 2, Hengmingzhu Shajing Industrial Park,
Xiangxing Road, Baoan District, Shenzhen, Guangdong, China

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Telephone..... : /

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Test Result**Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	October 28, 2020	Initial Issue	Gavin Liang

1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	: Single channel dimming controller
Test Model	: ERC1201
Additional Model No	Controller: ERC1203 S2 Series : ES2154, ES2254, ES2354, ES2111, ES2211, ES2311, ES2100, ES2200, ES2300 S3 Series : ES3154-1R, ES3254-1R, ES3454-2R E2 Series : EE2454-2R, EE2411-2R, EE2254-2R, EE2211-2R P1 Series : EP1454, EP1439 M1 Series: EM1350, EM1300, EM1310
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	: Input: 200-240V~ Output: LED 100W
Hardware Version	: V1.3
Software Version	: V1.0
SRD	:
Frequency Range	: 433.3MHz
Channel Number	: 1
Modulation Type	: FSK
Antenna Description	: Internal Antenna, 2.00dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz ~ 2472MHz
Channel Spacing	: 5MHz
Channel Number	: 13 Channel for 20MHz bandwidth(2412~2472MHz)
Modulation Type	: 802.11b: DSSS; 802.11g/n: OFDM
Antenna Description	: Internal Antenna, 2.00dBi(Max.)

1.2. Objective

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 50663: 2017 – Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

1.3. Test Methodology

All measurements contained in this report were conducted with EN 50663: 2017.

1.4. Facilities

All measurement facilities used to collect the measurement data are located at Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao' an District, Shenzhen, Guangdong, China .

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.5. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
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Note: The adapter are only used test, not shipped

1.6. External I/O Cable

I/O Port Description	Quantity	Cable
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1.7. Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

1.8. Laboratory Accreditations And Listings

Site Description

EMC Lab. : NVLAP Accreditation Code is 600167-0.
 FCC Designation Number is CN5024.
 CAB identifier is CN0071.
 CNAS Registration Number is L4595.

Name of Firm : Shenzhen LCS Compliance Testing Laboratory Ltd.

Site Location : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park,
 Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong,
 China

1.9. Measurement Uncertainty

Test Item		Uncertainty
Radio Frequency	:	0.9×10^{-4}
Total RF Power, Conducted	:	1.0 dB
RF Power Density, Conducted	:	1.8 dB
Spurious Emissions, Conducted	:	1.8 dB
All Emissions, Radiated	:	3.1 dB
Temperature	:	0.5°C
Humidity	:	1 %
DC And Low Frequency Voltages	:	1 %

2. HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

2.1 Test Methodology

2.1.1.General description of applied standards

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 50663- Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

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2.1.2.Description of test modes

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

2.2 Test limit

If the average power emitted by apparatus operating in the frequency range 10 MHz – 300GHz is less than or equal to 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

2.3 Test Results

Since Max. output power for 2.4G-wifi is 16.03mW (12.05dBm According to radio test report LCS200717063AEB; LCS200717063AEC) less than 20mW specified in EN 50663. This unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).

The unit complies with the EN 50663 for RF exposure requirement.

No non-compliance noted.

-----THE END OF TEST REPORT-----