

Zhongshan Leadfore Lighting Technical Co., Ltd.

Federal Communications Commission
Equipment Authorization Division
7435 Oakland Mills Road
Columbia, MD 21046
USA

Date:

Subject: **Modular Transmitter Application**

Company name: Zhongshan Leadfore Lighting Technical Co., Ltd.
FCC ID: 2BAIE-LF102

Dear Sir/Madam,

This letter includes the FCC application requirements for Modular Transmitter Approval Request for:-

FCC KDB 996369 D01 'Module Certification Guide v02; and
FCC KDB 996369 D03 OEM Manual v01

In accordance with 47CFR 15.212 Modular Transmitters and KDB 996369 D01 'Module Equip Auth Guide v02'. FCC ID 2BAIE-LF102 has been examined against the following requirements.

Requirement per 15.212 and KDB 996369 D01	Explanation from Grantee (do not write yes/no, but explain why product complies/how it is achieved)
The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly.	No, there's no shielding shields.
The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal.	Yes , All inputs to the modules are buffered through logic or microprocessor inputs.
The module must contain power supply regulation on the module.	Yes, A low drop out regulator is used for modular power supply regulation.
The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per §§ 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b).	Yes, Device has a permanently connected spring antenna.
The module must demonstrate compliance in a stand-alone configuration.	Yes, distance between modular and all AEs are longer than 20cm , refer to setup photo.
The module must be labeled with its permanently affixed FCC ID label, or use an electronic display (see KDB Publication 784748).	Yes ,The modular has a permanent fixed label, and below statement was listed in the User Manual; The host device must be labeled to display the FCCID of the module Contains FCC ID: 2BAIE-LF102
The module must comply with all specific rules applicable to the transmitter, including all the conditions provided in the integration instructions by the grantee.	Yes ,The module comply with all specific rules applicable to the transmitter including all the conditions provided in the integration instructions by the grantee, Refer to test report and user manual

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The module must comply with RF exposure requirements	Yes , Transmitter meets MPE calculation of 47 CFR 1.1307 . Refer to MPE Reports and Refer to modular installation manual
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Integration Instructions for host product manufacturers

The following items are submitted in support of application for Modular Transmitter FCC ID as noted above as required by the FCC KDB 996369 D03 OEM Manual v01.

These items are provided as integration instructions for host product manufacturers (e.g., OEM instruction manual) to use when integrating a module in a host product.

Any requirements that are not applicable to the Module are as indicated below.

Summary of requirements and Checklist. Refer to the KDB for description of the complete requirements;

KDB Ref Sect	Requirements of KDB 996369 D03	User Manual Page Number reference
2.2	List of applicable FCC rules	Please refer to P7-9
2.3	Summarize the specific operational use conditions	Please refer to P7-9
2.4	Limited module procedures	Please refer to P7-9
2.5	Trace antenna designs	Please refer to P7-9
2.6	RF exposure considerations	Please refer to P10-11
2.7	Antennas	Please refer to P7-9
2.8	Label and compliance information	Please refer to P6
2.9	Information on test modes and additional testing requirements	Please refer to P7-9
2.10	Additional testing, Part 15 Subpart B disclaimer	Please refer to P7-9

Signature: Jiankuai Li **Date:** 2023.03.30

Name: Jiankuai Li

Title: PM

Company: SHENZHEN STS TEST SERVICES CO.,LTD.