

Thortron TechnologyIncorporation Co.,Ltd.

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

Date:

Subject; **Modular Transmitter Application**

Company name: Thortron TechnologyIncorporation Co.,
Ltd. **FCCID:** 2BDDW-BLM8723DS1

Dear Sir/Madam,

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

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

In accordance with 47 CFR 15.212 Modular Transmitters and KDB 996369D01 'Module Equip Auth Guide v02'. FCC ID 2BDDW-BLM8723DS1 has been examined against the following requirements.

Requirement per 15.212 and KDB 996369D01	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.	Yes, there is a shield
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).	No, the module without antenna.
The module must demonstrate compliance in a stand-alone configuration.	No, The module was not tested in stand-alone configuration – it was tested in the Host.
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 FCC ID of the module Contains FCC ID: 2BDDW-BLM8723DS1
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 complies 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

Thortron TechnologyIncorporation Co.,Ltd.

The module must comply with RF exposure requirements	Yes, Transmitter meets MPE calculation of 47CFR 1.1307. Refer to MPE Reports and Refer to modular installation manual
------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

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 996369D03 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 996369D03	User Manual Page Number reference
2.2	List of applicable FCC rules	16
2.3	Summarize the specific operational use conditions	16
2.4	Limited module procedures	3
2.5	Trace antenna designs	16
2.6	RF exposure considerations	8
2.7	Antennas	16
2.8	Label and compliance information	16
2.9	Information on test modes and additional testing requirements	16
2.10	Additional testing, Part 15 Subpart B disclaimer	16

Name: Yi Hsiang Wang

Date: 2023.11.01

Title: Project Manager

Signature of applicant *Yi Hsiang Wang*