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

Date: Dec. 24, 2025

Subject; **Modular Transmitter Application**

Company name: Shenzhen Root Innovation Technology Co., Ltd.
FCC ID: 2BENK-MEGG1

Dear Sir/Madam,

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

FCC KDB 996369 D01 'Module Certification Guide v04r02; and
FCC KDB 996369 D03 OEM Manual v01r01

In accordance with 47CFR 15.212 Modular Transmitters and KDB 996369 D01 'Module Equip Auth Guide v02'. FCC ID 2BENK-MEGG1 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.	Shielding is provided by a metal cover over the circuitry.
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.	All modulation and data inputs are buffered by circuitry on the transmitter chip.
The module must contain power supply regulation on the module.	Power supply regulation is provided by circuitry on the transmitter chip.
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).	It is PCB Antenna.
The module must demonstrate compliance in a stand-alone configuration.	Testing was performed in a stand-alone configuration as shown in the test setup photos.
The module must be labeled with its permanently affixed FCC ID label, or use an electronic display (see KDB Publication 784748).	The modular was labelled with its own FCC ID. The outside of device in to which the module is installed will labelled Contains TX FCC ID: 2BENK-MEGG1, Please refer to User Manual.
The module must comply with all specific rules applicable to the transmitter, including all the conditions provided in the integration instructions by the grantee.	The modular is comply with all applicable FCC rules. Any modifications, not expressly approved by the manufacturer could void the authority to operate in these regions.

The module must comply with RF exposure requirements	This module compliance with RF Exposure requirements, please refer to MPE Report. This module operates under Part 15.247 which is exempt from RF exposure evaluation owing to the very low operating power.
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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 v01r01.

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	P22
2.3	Summarize the specific operational use conditions	P22
2.4	Limited module procedures	P22
2.5	Trace antenna designs	P22
2.6	RF exposure considerations	P22
2.7	Antennas	P22
2.8	Label and compliance information	P22
2.9	Information on test modes and additional testing requirements	P22
2.10	Additional testing, Part 15 Subpart B disclaimer	P22
2.11	Note EMI Considerations	P22
2.12	How to make changes	P22

Bobby.zou

Name: Bobby Zou

Date: Dec. 24, 2025

Title: Manager

Signature of applicant