

IDQ Science and Technology (Hengqin, Guangdong) Co. Ltd.

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

Date: April 25, 2024

Subject; **Modular Transmitter Application**

Company name: IDQ Science and Technology (Hengqin, Guangdong) Co. Ltd.
FCC ID: 2BFFE-DT-UNIT-4

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: 2BFFE-DT-UNIT-4 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.	The modular transmitter must have its own RF Shielding
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.	The EUT has buffered data inputs; it is integrated in chip EFR32MG13P732F512GM48-C.
The module must contain power supply regulation on the module.	The EUT interface provides 5 VDC, and on board GPIO Pins have its own VCO inside.
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).	The EUT meets the antenna requirements. It is AN1003 Multilayer Chip Antenna. Refer to the photo of antennas are shown in the Internal Photos.
The module must demonstrate compliance in a stand-alone configuration.	The EUT is tested in a stand alone configuration via a DC Power Supply. Please see the photo of test setup photo of the report.

The module must be labeled with its permanently affixed FCC ID label, or use an electronic display (see KDB Publication 784748).	The EUT has its own FCC ID and the label is visible.
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 EUT is comply with all applicable FCC Rules. Warning detail refer to the user manual.
The module must comply with RF exposure requirements	The EUT is comply with all applicable RF exposure requirements. See this RF exposure report.

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	see user manual page 14
2.3	Summarize the specific operational use conditions	see user manual page 14
2.4	Limited module procedures	see user manual page 14
2.5	Trace antenna designs	see user manual page 14
2.6	RF exposure considerations	see user manual page 14
2.7	Antennas	see user manual page 14
2.8	Label and compliance information	see user manual page 15
2.9	Information on test modes and additional testing requirements	see user manual page 15
2.10	Additional testing, Part 15 Subpart B disclaimer	see user manual page 15

Name: Judy Yan

Date: April 25, 2024

Title: Manager

Signature of applicant: *Judy Yan*

