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Modular Approval Letter

Date: 2022-04-15

FEDERAL COMMUNICATIONS COMMISSIONS

Authorization and Evaluation Division

7435 Oakland Mills Road

Columbia, MD 21046

Dear Application Examiner,

We, Seeed Technology Co., Ltd is submitting this application for certification of product named as XIAO nRF52840 Sense, Model: XIAO-nRF52840 Sense; Multiple Product Name: XIAO nRF52840, Multiple Model: XIAO-nRF52840; FCC ID: Z4T-XIAONRF52840. It is seeking modular approval. The radio meets the requirements for modular approval as detailed in FCC 15.212. Compliance to each of the requirements is described below:

1. **“The modular transmitter must have its own RF shielding.”**

Yes, it is fulfilled. The radio portion of the module has its own RF shielding. The shielding is installed at the factory.

Please see the XIAO-nRF52840 Sense/XIAO-nRF52840 EUT photos.

2. **“The modular transmitter must have buffered modulation/data inputs.”**

The modular transmitter has buffered modulation/data inputs, Buffered data in puts stage has been integrated in chip.

3. **“The modular transmitter must have its own power supply regulation.”**

Yes, it is fulfilled. The XIAO-nRF52840 Sense/XIAO-nRF52840 has its own power supply regulation to insure compliance. Please refer to the Block Diagram.

4. **“The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).”**

Yes. The XIAO-nRF52840 Sense/XIAO-nRF52840 has a chip antenna for BLE, which was employed the antenna maximum gain is 2dBi.

5. **“The modular transmitter must be tested in a stand-alone configuration.”**

Yes, it is fulfilled. The XIAO-nRF52840 Sense/XIAO-nRF52840 was tested in a stand-alone configuration, please refer to test photos exhibit for details.

6. **“The modular transmitter must be labeled with its own FCC ID number.”**

Yes, it is fulfilled. The module will be labeled with its own FCC ID number. Please see FCC ID label & location exhibit.

7. **“The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.”**

Yes, it is fulfilled. The necessary explanation to be complied with this requirement is contained in the user manual, and please refer to the User manual.

8. **“The modular transmitter must comply with any applicable RF exposure requirements.”**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. If the device built into a host as a portable usage, the additional RF exposure evaluation may be required as specified by §2.1093.

Please contact me if you have additional questions. Your attention to this matter is greatly appreciated.

Sincerely Yours,

Signature:



Name: Albert Miao

Title: R&D Director