

Kyowa Electronic Instruments Co., Ltd.

Date: 2023/04/07

FCC ID: 2AJE9MR-2400MB

To the certification reviewer:

We are hereby applying for full modular approval of the above-referenced FCC ID, based on compliance with all of the criteria as detailed below

The requirements of Section 15.212 have been met and shown on the following statements

Requirements		EUT Conditions
1	The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.	The module has its RF-parts enclosed by a shield cover soldered onto the module ground plane.
2	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.	The module does not have modulation inputs. The electrical interface available to the module integrator consists of Power supply, UART, SPI and I/O signals. The interface signals are internally buffered by the module System on Chip "Nordic nRF52833" and cannot affect the modulation.
3	The modular transmitter must have its own power supply regulation..	The module SoC (System on Chip "Nordic nRF52833") has its own internal voltage regulators. In case the supply voltage fluctuates internal voltages will be kept unaffected.
4	The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable). The "professional installation" provision of Section 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	The module has an integrated antenna mounted on the substrate. The RF signal can also be connected to an external antenna connector and the antenna trace reference design guides the module integrator how to connect this solder land to a U.FL connector.

Requirements		EUT Conditions
5	The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with Part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see Section 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see Section 15.31(i)).	The module is tested in a stand-alone configuration.
6	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. If the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.	Instructions are provided in the user manual how the end-product containing the module be labelled.
7	The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.	The EUT is compliant with all applicable FCC rules. Detail instructions for maintaining compliance are give in the Users Manual.
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The EUT is compliant with all applicable RF exposure requirements. RF exposure is addressed in the RF exposure exhibition.

Signed by:

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