

Declaration of the Modular Approval

Applicant/ Grantee	4iiii Innovations Inc.
FCC ID	ZZN-FB100
IC	9896A-FB100
Model:	FB100
Product Type:	Bluetooth, ANT, NFC wireless module

The single module transmitter has been evaluated then tested meeting the requirements under Part 15C Section 2.12 as below:

Modular approval requirement	EUT Condition	Comply
(i) 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 radio elements of the modular transmitter have their own shielding.	Yes
(ii) 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 modular has buffered data inputs, it is integrated in chip nRF52832. Please see schematic.pdf	Yes
(iii) The modular transmitter must have its own power supply regulation.	All power lines derived from the host device are regulated before energizing other circuits internal to the nRF52832. Please see schematic.pdf	Yes
(iv) The modular transmitter must comply with the antenna and transmission system requirements of §§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 §15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	The modular meets the FCC antenna requirement, please see the RF report. and the modular employ a permanently attached antenna on PCB, please see the sample photos.	Yes
(v) The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i> , 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 §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 §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 §15.31(i)).	The FB100 was tested in a stand-alone configuration via a USB2UART host PCB. Please see test set-up photos.	Yes

<p>(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.</p>	<p>The label position of FB100 is clearly indicated. If the FCC ID of the module cannot be seen when it is installed, then the host label must include the text: Contains FCC ID: ZZN-FB100</p>	<p>Yes</p>
<p>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.</p>	<p>The FB100 is compliant with all applicable FCC rules. Detail instructions are given in the User Manual.</p>	<p>Yes</p>
<p>(viii) Radio frequency devices operating under the provisions of this part are subject to the radio frequency radiation exposure requirements specified in §§1.1307(b), 1.1310, 2.1091, and 2.1093 of this chapter, as appropriate. Applications for equipment authorization of modular transmitters under this section must contain a statement confirming compliance with these requirements. The modular transmitter must comply with any applicable RF exposure requirements in its final configuration. Technical information showing the basis for this statement must be submitted to the Commission upon request.</p>	<p>The FB100 is approved to comply with the applicable RF exposure requirement, please see the evaluation report with no distance restriction.</p>	<p>Yes</p>

Name of the applicant (Or authorized representative): Eric Li



Date: April 9, 2021