



BY
INGENIARTS
TECHNOLOGIES

December 05, 2023

Federal Communications Commission

Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Request for Limited Modular Approval

FCC ID: 2AUBT-UGOWORKHMI2

We formally request modular approval on the above reference device pursuant to the requirements of FCC publication 996369 D01 for modular approval of Part 15 devices.

Modular approval requirement	Yes	No	Comments
(1) The radio elements must have its own radio frequency circuitry shielded. The physical crystal and tuning capacitor(s) may be located external to the shield, but must be on the module assembly.		X	Radio module has no shield.
(2) The module must have buffered modulation/data inputs (if provided) to ensure that the device will comply with FCC requirements under conditions of excessive data rates or over-modulation.	X		System uses CC3200 MCU which integrates a Wi-Fi Network processor subsystem.
(3) The module must contain its own power supply regulation on the module. This is intended to ensure that the module will comply with FCC requirements regardless of the design of the power supplying circuitry in the device into which the module is installed.	X		System has its own power supply regulation.
(4) The module must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b), 15.204(c), 15.212(a), and 2.929(b). 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 15.212(b), 15.212(a)(1)(iv).	X		Only the on-board, already supplied chip antenna is supported.
(5) The module must demonstrate compliance in a stand-alone configuration, the module must not be inside another device during testing. This is intended to demonstrate that the module can comply with Part 15 emission limits regardless of the device into which it is eventually installed.	X		Module tested accordingly by Nemko
(6) The module must be labeled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labeling requirements)	X		Module labeled with a FCC ID sticker.



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(7) The module must comply with all specific rules or operating requirements applicable to the transmitter, including all the conditions provided in the integration instructions by the grantee. A copy of these instructions must be included in the application for equipment authorization.	X		Module complies with rules and conditions.
(8) The module must comply with any applicable RF exposure requirements.	X		Module complies with RF exposure requirements as calculated

Since there is no shield on our module, this request is for LMA (Limited Modular Approval).

Memo for FCC 15.212 (b) requirement on UGOWORK HMI V2

The module is only certified for intentional emissions with a limited modular approval, the limited modular radio will only be integrated by IngeniArts Technologies Inc. in its products. Every UGOWORK battery model that will include the UGOWORK HMI V2 shall be validated for both unintentional (e.g. FCC Part 15 Subpart B) and intentional emissions after the integration of the UGOWORK HMI V2.

Sincerely,

Signature

Philippe Beauchamp

President

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