



Modular Approval Request - FCC

RE: Request for modular approval

Model: XIU001000

FCC ID: 2AOX5XIU001000

To whom it may concern,

We formerly 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	Comment*
(a) The radio elements of the radio frequency circuitry must be shielded. Physical/discrete and tuning capacitors may be located external to the shield, but must be on the module assembly.	X		Radio transceiver, radio crystal, matching and filtering are all under an RF shield. Bottom shielding is implemented by copper GND plane in PCB.
(b) The module shall have buffered modulation/data input(s) (if such inputs are provided) to ensure that the module will comply with the requirements set out in the applicable FCC rule part under conditions of excessive data rates or over-modulation.	X		All radio control is internal to the module by the on-board micro-controller (MCU). Host interaction to the module is through interfaces on the MCU, which buffers the data, and not directly to the transceiver.
(c) The module shall have its own power supply regulation on the module. This is to ensure that the module will comply with the requirements set out in the applicable standard regardless of the design of the power supplying circuitry in the host device which houses the module.	X		Regulated power is provided to the radio transceiver, and the MCU controlling the transceiver. This power is generated from a battery supply input to the module.
(d) The module must be certified with specific antennas and these antennas must be contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s).	X	<input type="checkbox"/>	Module contains a U.FL connector and will be shipped either with an internal antenna adhered to the case or an external antenna connected with an RPSMA connector.
(e) The module shall be tested for compliance with the applicable standard in a stand-alone configuration, i.e. the module must not be inside another device during testing.	X	<input type="checkbox"/>	Module was tested stand-alone.
(f) The module must be labelled with its permanently affixed FCC ID label, or use an electronic display.	X	<input type="checkbox"/>	Module will be labeled with a sticker on the module. If the FCC ID is not visible when installed inside a host device, another label with the FCC ID will be applied to the exterior of the device



(g) The module shall comply with all specific rules applicable to the transmitter including all the conditions provided in the integration instructions provided by the grantee.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The module is compliant with applicable FCC rules. The module MCU controls the transmitter itself. Host only provides data to be sent, but does not control how it is sent. Eleven-X will control the software on the module MCU which controls transceiver operation.
(h) The module must comply with RF exposure requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The module was tested to be compliant with RF exposure requirements.

* Please provide a detailed explanation for each item

Based on the above information this request is for:

SINGLE modular approval.

Sincerely,

Ryan Hickey

4/4/2018

Company name and address: ELEVEN-X INCORPORATED, 460 Phillip Street, Suite 300, Waterloo, Ontario, N2L5J2