

**Applicant:** Nestronics Research Inc.

Test Report S/N: 45461445-R3.0

FCC ID: 2AP75TXRX

ISED ID 23764-TXRX

## **EXHIBIT 6 – FCC MODULAR APPROVAL LETTER**



21-364 Lougheed Rd, Kelowna, Britsh Columbia, Canada, V1X 7R8 1-250-7650

Date: 12 September 2018

**To:** Federal Communications Commission Authorization and Evaluation Division

7435 Oakland Mills Rd. Columbia, MD 21046

RE: Limited Modular Approval Attestation of FCC ID: 2AP75TXRX

This is a request for a Limited Modular Approval of FCC ID: **2AP75TXRX** in accordance with 47 CFR 15.212(b). The referenced product is a transceiver module that can be integrated into any Nestronics Home Anchor products and is not intended to sold or distributed to any other 3rd party integrator. The following is a declaration of conditions. A ✓ denotes compliance to the applicable rule part.

## §15.212 Modular transmitters.

- (a) Single modular transmitters consist of a completely self-contained radiofrequency transmitter device that is typically incorporated into another product, host or device. Split modular transmitters consist of two components: a radio front end with antenna (or radio devices) and a transmitter control element (or specific hardware on which the software that controls the radio operation resides). All single or split modular transmitters are approved with an antenna. All of the following requirements apply, except as provided in paragraph (b) of this section.
- (1) Single modular transmitters must meet the following requirements to obtain a modular transmitter approval.
  - (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.
    (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.
    (iii) The modular transmitter must have its own power supply regulation.
    (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.
    - (v) 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 §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)).



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~	(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.
<b>V</b>	(vii) 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.
~	viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.
<b>V</b>	(iv) Manufacturers must ensure that only transmitter control elements and radio front end components that have been approved together are capable of operating together. The transmitter module must not operate unless it has verified that the installed transmitter control elements and radio front end have been authorized together. Manufacturers may use means including, but not limited to, coding in hardware and electronic signatures in software to meet these

(b) A limited modular approval may be granted for single or split modular transmitters that do not comply with all of the above requirements, e.g., shielding, minimum signaling amplitude, buffered modulation/data inputs, or power supply regulation, if the manufacturer can demonstrate by alternative means in the application for equipment authorization that the modular transmitter meets all the applicable part 15 requirements under the operating conditions in which the transmitter will be used. Limited modular approval also may be granted in those instances where compliance with RF exposure rules is demonstrated only for particular product configurations. The applicant for certification must state how control of the end product into which the module will be installed will be maintained such that full compliance of the end product is always ensured.

requirements, and must describe the methods in their application for equipment authorization.

This module does not have power supply regulation. The module is not to be sold, distributed or installed by 3rd party OEM integrators. This module is intended to be installed and operated in an application with a nominal terminal (supply) voltage of 3.0VDC. This module is designed to have an operating supply voltage input range between 2.5VDC and 3.4VDC supply voltage. Compliance has been demonstrated with a supply voltage of less than 85% of the minimum and greater than 115% of the maximum operating input voltage range, 1.8VDC to 4.0VDC. This module is only to be installed by Netstronics Research Inc. in their family of host products. Compliance will be maintained when installed and operated in host devices having a nominal terminal (supply) voltage of 3.0VDC. This module is designed to be used in mobile and portable hosts applications.

Applicant/Agent Name:	l Ben Hewson	Applicant/Agent Title:	President
Applicant/Agent Signature:	Do House	Signature Date:	12 Sept 2018