

16 01 13

Nemko Canada Inc
303 River Road
Ottawa, Ontario, Canada
K1V 1H2

Attn: Director of Certification

FCC ID: QASRA-T411-02

Request for Limited Modular Approval

15.212(a)(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.

The module does not have an RF shield. All radio elements are self-contained in the microcontroller/transceiver IC (model CC1110) and only the physical crystal, balun and tuning capacitors are located externally to such. The module is intended only to reside alone inside an enclosure. In this configuration, as there are no wires or other circuits present, there can be no coupling of the RF circuitry of the module. Product documentation will clearly state that the module is to be used exclusively in this configuration.

(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.

Not applicable. The module is self-contained and does not have modulation or data inputs.

(iii) The modular transmitter must have its own power supply regulation.

The module is autonomously battery powered.

(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 module employs a chip antenna which is physically soldered to the PCB. There is no means provided for an end user to modify or change the antenna.

(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)).

The module was tested in a standalone configuration. This is a self-contained battery-powered module. It uses a single CR2032 Lithium coin cell which provides a nominal 3V.

(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.

(A) If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number 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. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.

(B) If the modular transmitter uses an electronic display of the FCC identification number, the information must be readily accessible and visible on the modular transmitter or on the device in which it is installed. If the module is installed inside another device, then the outside of the device into which the module is installed must display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains FCC certified transmitter module(s)." Any similar wording that expresses the same meaning may be used. The user manual must include instructions on how to access the electronic display. A copy of these instructions must be included in the application for equipment authorization.



9266-5777 Quebec inc.
501-1015 rue William
Montreal, QC
H3C 1P4 Canada

The module complies with the labeling requirements of (A). The final product will be labeled with the statement: Contains FCC ID QASRA-T411-02, Contains IC: 10707A-RAT41102.

(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.

This module complies with the requirements of part 15.249 for operation in the 902-928MHz frequency band.

(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.

The module complies with the applicable RF exposure requirements.

Name: Jeffrey Dungen

Title: President

Company Name: 9266-5777 Quebec inc.

Signature: 