

October 26, 2020

Federal Communication Commission
Office of Engineering and Technology
Equipment Authorization Division
7345 Oakland Mills Road
Columbia, MD 21046

Subject: Modular Approval for FCC ID 2AXVW-NOVUSAIR

To Whom It May Concern,

NOVUS Automation Inc. is seeking modular approval for NovusAir- IEEE 802.15.4 module FCC ID: 2AXVW-NOVUSAIR. The radio module meets the requirements for modular approval as detailed in FCC 15.212. The following information is being provided to describe compliance to each of the requirements:

Modular Approval Requirement	Yes	No	Explanation
(i) The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitor may be located external to the shielded radio elements	X		All radio elements are placed inside a metallic shielding
(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	X		All inputs are processed as data by the on-board microcontroller. It is not possible to externally control transmitted modulation, power or frequency.
(iii) The modular transmitter must have its own power supply regulation.	X		The RF transceiver has an integrated 1.8V regulator.
(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.	X		The module uses an external antenna that couples to the it though a unique RP-SMA connector, in accordance with part 15.203.
(v) The modular transmitter must be tested in a stand-alone configuration	X		The module was tested in a stand-alone configuration and showed to be compliant with part 15 requirements. Please refer to test reports and test setup photos for more detailed information.
(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	X		A label containing the FCC ID is affixed to each unit. Information concerning labeling requirements for the final assembly are clearly presented in the user manual.
(vii) The modular transmitter must comply with any specific rules or operating requirements that			The unit is compliant with part 15.247 (Operation within the band

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.	X		2400-2483.5 MHz). All installation instructions for maintaining compliance have been clearly described in the user manual.
(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	X		The module is compliant with RF exposure requirements as specified in section 1.1307(b).

Sincerely,



Giuliano Bruno Martins Guarese
Project Manager