

To whom it may concern,

We request that the WiFi module Nano_SMT_UFL P/N: iW-SM2144SMT-EX be certified as a Single-modular transmitter based on the following table of requirements and reasons.

Best Regards

Avi Provizor Vice President Operations

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Modular approval statement for Nano_SMT_UFL P/N: iW-SM2144SMT-EX

The modular transmitter must have its own RF shielding. This is intended to ensure that the module does not have to rely upon the shielding provided by the device into which it is installed in order for all modular transmitter emissions to comply with Part 15 limits. It is also intended to prevent coupling between the RF circuitry of the module and any wires or circuits in the device into which the module is installed. Such coupling may result in non-compliant operation

The RF devices and the associated baseband controller are contained in a separate shielded module mounted on our PCB.

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.

There is no direct access to the modulation inputs to the transmitter from the interface to the module. Input data for transmission is sent to the module via a UART / USB / SPI connection to the on-boar microcontroller which formats the data for WLAN transmission and then sends the data to the WLAN baseband controller processor which is responsibl for the modulation of the data prior to feeding to the radio device for transmission. In this respect the transmit data from the connector is buffered by our on-board microcontroller.

The modular transmitter must have its own power supply regulation. This is intended to ensure that the module will comply with Part 15 requirements regardless of the design of the power supplying circuitry in the device into which the module is installed.

The WiFi module contains its own power supply regulator.

The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c). The antenna must either be ermanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable). Any antenna used with the module must be approved with the module, either at the time of initial authorization or through a Class II permissive change. The "professional installation" provision of Section 15.203 may not be applied to modules.

The module has unique U.FL connector which connected to RP-SMA external antenna.

The modular transmitter must be tested in a standalone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed. Unless the transmitter module will be battery powered, it must comply with the AC line

The module was not tested within any other device. During testing the module was attached to a power supply and RS232 convertor. It was mounted along with the controlling PC more than 10cm away from the module.

conducted requirements found in Section 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 Section 15.27(a)). The length of these lines shall be 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 or commercially available (see Section 15.31(i)).

The modular transmitter must be labeled with its

own FCC ID number, and, if the FCC ID 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.

The module has its own label and a statement regarding the labeling requirements will be included in the module datasheet. The text of this statement has been submitted as part of this approval.

The modular transmitter must comply with any specific rule or operating requirements applicable to the 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. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured.

The text of our FCC compliance statement has been submitted as part of this approval.

The modular transmitter must comply with any applicable RF exposure requirements. For

The module is comply as needed

example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance.