

Modular Approval Request Letter

Date: 2022-05-20

FCC ID: SIFSBLEV3DKPLUS

Type of Equipment: Chirp Spread Spectrum Transmitter Receiver Tracking Unit on Development Kit

Herewith we state that the requirements according to FCC Part 15.212 are met and the module qualifies for a single modular transmitter approval.

| # | Requirement as per 47 CFR Part 15 Subpart C §15.212 | Conditions met? (Y/N) | Realisation / Evidence in FORM 731 application filing |
|------|---|--------------------------|---|
| i | RF shielding 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. | Y | Radio has shielding |
| ii | Buffered modulation/data inputs 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. | Y | The device has buffer functionality built into the module's hardware. |
| iii | Power supply regulation The modular transmitter must have its own power supply regulation. | Y | SB LE V3 regulates voltage inside shielding |
| iv | Antenna requirements 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). Additional justification and details may be requested – please refer to KDB 996369 | Y | Antenna documentation provided |
| v | Stand-alone test configuration 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)). | Y | The modular transmitter has been tested in a stand alone configuration. It has passed the requirements for FCC §15.207. There are no additional ferrites required as per FCC §15.27(a). All support equipment that is connected to the module during testing will be commercially available as per FCC §15.31(i) |
| vi | Labelling The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. | Y | Label guide has been provided to Eurofins. |
| vii | Compliance on specific rule or operating requirements 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. | Y | The user guide will specify required steps to ensure that compliance is maintained with the device. |
| viii | RF Exposure Radio frequency devices operating under the provisions of this part are subject to the radio frequency radiation exposure requirements specified in §§1.1307(b), 1.1310, 2.1091, and 2.1093 of this chapter, as appropriate. Applications for | Y | The device is setup as a mobile device that is setup not near a human. The total power output from the transmitter is restricted to be |



| | | | |
|--|--|--|---|
| | <p>equipment authorization of modular transmitters under this section must contain a statement confirming compliance with these requirements. The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.</p> | | <p>equal to or less than +20 dBm (100 mw). The device is designed to not be not in close contact with people.</p> |
|--|--|--|---|

A handwritten signature in black ink that reads "G Williams".

Dr Gareth Williams
Test Engineer
Nanotron/Inpixon