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RE FCC ID:IYLLEXM06001

To the certification reviewer:

We are hereby applying for full modular approval of the above-referenced FCC ID, based on compliance with all of the criteria as detailed below.

Sincerely,

Thomas Bugbee
Regulatory Manager

**Part 15 Unlicensed Single Modular Transmitter Approval Justification per
15.212**

Requirement per 15.212	reference
(i) The radio elements of the modular transmitter must have their own RF shielding.	Shielding is provided by a metal cover over the circuitry.
(ii) The modular transmitter must have buffered modulation/data inputs (if such inputs are provided).	Connect via SPI or UART interface. All modulation and data inputs are buffered by circuitry on the transmitter chip.
(iii) The modular transmitter must have its own power supply regulation.	Internal regulator: Power supply regulation is provided by circuitry on the transmitter chip.
(iv) The modular transmitter must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b) and 15.204(c).	The module has the capability of using an onboard or an external antenna. Note that either the external antenna or the onboard antenna is connected, but not both per series capacitor population. When using the onboard antenna the antenna is permanently attached. The external antenna connector to the module is non-standard (it's not an SMA etc). It's a Hirose U.FL-R-SMT(10). See the connector spec which is provided as an exhibit. This connector should meet the non-standard connector requirement for external antenna attachment.
(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 parameters.	Testing was performed with the module extended outside of the host on a special extender board, as shown in the test setup photos.

<p>(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. 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.</p>	<p>A sample of the host label is provided as an exhibit, showing the FCC identifier of the module.</p>
<p>(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.</p>	<p>The module complies fully with the operating requirements of Part 15 subpart B and C as demonstrated in the test report exhibit.</p>
<p>(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.</p>	<p>This module operates under Part 15 section C, and when installed in its final configuration in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. Based upon calculations provided, the MPE is well below the limits of general population/uncontrolled exposure.</p>