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RE FCC ID: CBF-IM1701B

To the certification reviewer:

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

Sincerely,



Jake Bryner
Managing Partner / Chief Technical Officer

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 top and sides of the RF circuitry, with a ground plane shielding the underside. Please see external photos submitted as part of this application.
(ii) The modular transmitter must have buffered modulation/data inputs (if such inputs are provided).	All external data inputs are buffered by internal circuitry on the PIC24FJ128GA306 microcontroller. Please refer to the supporting schematic.
(iii) The modular transmitter must have its own power supply regulation.	The module has its own power supply regulation and input over-voltage protection. Please refer to the supporting schematic.
(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 employs a unique coupler attaching to MMCX connectors on the device. Please see the integration guide and external photos submitted as part of this application.
(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.	The module was tested in a standalone configuration on a special breakout board used exclusively for testing. Please see the attached test report photos.
(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.	A sample of the device and host labeling is provided as an exhibit, showing the FCC identifier of the module.



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(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.	The module complies fully with the operating requirements of Part 15 Section 15.247 as demonstrated in the test report exhibit. Compliance requirements are outlined in the integration guide.
(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	An RF Exposure report showing compliance with Part 15 Section 15.247(i) has been submitted as part of this application.