



Modular Approval Request FCC (KDB 996369 D01 & Part 15.212)

FCC ID: VPYLBES0ZZ2LL

Items to be covered by <i>modular transmitters</i>.	Y/N	Answer from applicant
1. The modular transmitter must have its own RF shielding.	Yes	The module contains its own RF shielding.
2. 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.	Yes	The module's transmitter chip utilizes buffered data inputs.
3. The modular transmitter must have its own power supply regulation.	No	The module is limited as it does not have its own power supply regulators. The installation guide (user manual) instructs the OEM integrators to supply a stable input power range to the module via an external regulator.
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(b)(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).	Yes	The module connection to the antenna is made through a host's printed board microstrip trace layout to an external unique connector that meets the requirements. The installation guide (user manual) provides a specific referenced antenna trace design to the OEM integrators according to the KDB 996369 D02 Q&A 11.
5. The modular transmitter must be tested in a stand-alone 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.	Yes	The module is tested in a stand-alone configuration. Please see setup photos and test configuration in the test report.
6. The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number in accordance with 15.212 (a)(1)(vi)(A) / (B).	Yes	The dimension of the module is smaller than 1cm ² that leads to affixing the FCC ID on the module with font size larger than 4 point impractical, hence, the FCC ID is demonstrated in the installation guide (user manual) instead, it instructs the OEM integrators on how to label the end product as well.
7. 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.	Yes	The module complies with all applicable FCC rules. Details instructions for maintaining compliance are given in the installation guide (user manual).
8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 1.1310, 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. 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.	Yes	The module complies with RF exposure requirements. Evaluation is addressed in the RF exposure information exhibition.



Note: A limited modular approval (LMA) may be granted for *single* or *split* modular transmitters that comply partially with the requirements above.

Name and surname of applicant (or authorized representative): KENJI HAYASHIKOSHI

Date: December 6, 2024

Signature: K.Hayashikoshi