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Federal Communications Commission
Equipment Authorization Division
7435 Oakland Mills Road
Columbia, MD 21046
USA

Date: 13 May 2025

Subject: Modular Transmitter Application

Company name:

FCC ID:

Dear Sir/Madam,

This letter includes the FCC application requirements for Modular Transmitter Approval Request for;-

FCC KDB 996369 D01 'Module Certification Guide v04r02"; and
FCC KDB 996369 D03 "OEM Manual v01r01".

In accordance with 47CFR 15.212 Modular Transmitters and KDB 996369 D01 'Module Certification Guide v04r02", FCC ID MCQ-XBSG has been examined against the following requirements.

Item	Requirement per 15.212 and KDB 996369 D01	Y/N	Explanation from Grantee (Explain why product complies/how it is achieved)
1	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	The modular transmitter has its own shield.
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.	Y	The modular transmitter modulation inputs are buffered.
3	The modular transmitter must have its own power supply regulation.	Y	The modular transmitter has its own power supply regulator.
4	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). The "professional installation" provision of § 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	Y	The modular transmitter has a "unique" connector/coupler and will be noted to have "professional installation" required.
5	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	Y	The modular transmitter is tested in standalone configuration.



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	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)).		
6	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	Y	The modular transmitter will have a permanently affixed label. The FCC ID will be visible on the label. The end user/integrator will be instructed to add "Contains FCC ID: MCQ-XBSG" or similar wording to their product label.
7	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 modular transmitter complies with the rules for complete transmitter.
8	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 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. Technical information showing the basis for this statement must be submitted to the Commission upon request.	Y	The modular transmitter will comply with RF exposure requirements.

Integration Instructions for host product manufacturers

The following items are submitted in support of application for Modular Transmitter FCC ID as noted above as required by the FCC KDB 996369 D03 OEM Manual v01r01.

These items are provided as integration instructions for host product manufacturers (e.g., OEM instruction manual) to use when integrating a module in a host product.

Any requirements that are not applicable to the Module are as indicated below.

Summary of requirements and Checklist. Refer to the KDB for description of the complete requirements;

KDB Ref Sect	Requirements of KDB 996369 D03	User Manual Page Number reference
2.2	List of applicable FCC rules	32, 40
2.3	Summarize the specific operational use conditions	8, 40
2.4	Limited module procedures	40
2.5	Trace antenna designs	40
2.6	RF exposure considerations	40
2.7	Antennas	33-39
2.8	Label and compliance information	32, 40
2.9	Information on test modes and additional testing requirements	41
2.10	Additional testing, Part 15 Subpart B disclaimer	42
2.11	Note EMI considerations	42
2.12	How to make changes	42



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Name: Erik Reynolds

Date: 13 May 2025

Title: Director, Test Engineering

Signature of applicant

A handwritten signature in black ink, appearing to read "Erik Reynolds". The signature is fluid and cursive, with a distinct "E" at the beginning and "Reynolds" following it.