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9350 Excelsior Blvd, Suite 700
Hopkins, MN 55343
952-912-3444 / 877-912-3444
www.digi.com

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

Date: 02 March 2026

Subject; **Modular Transmitter Application**

Company name:
FCC ID: MCQ-XB3P9XR

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-XB3P9XR 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 900MHz RF radio module, 2.4GHz RF radio module, RF PA, and RF switch are all placed under a metal shield which is soldered to the ground plane of the PCB.
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	Data is buffered and processed prior to transmission. The transmit modulation is under the control of the modules and will comply with part 15 requirements.
3	The modular transmitter must have its own power supply regulation.	Y	Power supply regulation is provided by the RF microcontroller ICs, which have built-in supply regulators.
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 module uses U.FL connectors, a chip antenna, or bent metal antenna soldered to the PCB.
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 and supporting equipment. Any accessories, peripherals,	Y	Module is designed to accept DC power in the range of 2.6VDC to 3.6VDC.



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	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 module will be equipped with a permanently affixed label on its shield, displaying its FCC identification number. Additionally, the manual will contain language to the customer to apply a label "Contains FCC ID..." externally if the module label is not visible or use electronic display.
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 module complies with the rules and operating requirements for a complete transmitter, and the instruction manual will be included in the application.
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	RF exposure distance will be listed in manual.

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	Pg. 199
2.3	Summarize the specific operational use conditions	Pg. 199
2.4	Limited module procedures	Pg. 199
2.5	Trace antenna designs	Pg. 199
2.6	RF exposure considerations	Pg. 200
2.7	Antennas	Pg. 192-198
2.8	Label and compliance information	Pg. 200-201
2.9	Information on test modes and additional testing requirements	Pg. 201
2.10	Additional testing, Part 15 Subpart B disclaimer	Pg. 201
2.11	Note EMI considerations	Pg. 201
2.12	How to make changes	Pg. 199

Name: Paul Dahl

Title: Sr. Manager of Engineering