



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

Date: 18 July 2023

Subject; **Modular Transmitter Application**

**Company name: Digi International Inc.  
 FCC ID: MCQ-50M2100**

Dear

Sir/Madam,

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

FCC KDB 996369 D01 'Module Certification Guide v02; and  
 FCC KDB 996369 D03 OEM Manual v01

In accordance with 47CFR 15.212 Modular Transmitters and KDB 996369 D01 'Module Equip Auth Guide v02'. FCC ID: MCQ-50M2100 has been examined against the following requirements.

<b>Requirement per 15.212 and KDB 996369 D01</b>	<b>Explanation from Grantee</b> (do not write yes/no, but explain why product complies/how it is achieved)
The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly.	All related RF circuitry is contained within a metal shield
The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal.	All modulation/data inputs are isolated by a series resistor for each signal. All inputs terminate at an integrated digital controller.
The module must contain power supply regulation on the module.	The module has an integrated 3.3V voltage regulator that powers the module.
The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per §§ 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b).	The module contains an integrated PCB dipole antenna
The module must demonstrate compliance in a stand-alone configuration.	All certification testing was done with the module in a standalone configuration.
The module must be labeled with its permanently affixed FCC ID label, or use an electronic display (see KDB Publication 784748).	There is a label attached to the RF shield that has the FCC ID MCQ-50M2100 printed on it
The module must comply with all specific rules applicable to the transmitter, including all the conditions provided in the integration instructions by the grantee.	The module is compliant.
The module must comply with RF exposure requirements	The module meets or exceeds the RF exposure requirements

**Integration Instructions for host product manufacturers**



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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 v01.

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;

<b>KDB Ref Sect</b>	<b>Requirements of KDB 996369 D03</b>	<b>User Manual Page Number reference</b>
2.2	List of applicable FCC rules	Section 7.3.3.6.1.1
2.3	Summarize the specific operational use conditions	Section 7.3
2.4	Limited module procedures	N/A
2.5	Trace antenna designs	Sections 7.3.2.2, 7.3.3.3
2.6	RF exposure considerations	Sections 7.5.2, 7.5.3, 7.5.4
2.7	Antennas	Sections 7.3.2.2, 7.3.3.3
2.8	Label and compliance information	Section 7.6.8
2.9	Information on test modes and additional testing requirements	N/A
2.10	Additional testing, Part 15 Subpart B disclaimer	Section 7.3.4

**Name:** Bill Kumpf      **Date:** 18 July 2023

*Bill Kumpf*

**Title:** Sr Principal Electrical Engineer