

Shenzhen Daxiong Intelligence Co., Ltd.

Modular Transmitter Approval Request

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

Company name: Shenzhen Daxiong Intelligence Co., Ltd.
FCC ID: 2BW48-D73

Gentlemen,

In accordance with 47CFR 15.212 Modular Transmitters and KDB 996369 D01 'Module Certification Guide v04'. FCC ID 2BW48-D73 has been examined against the following requirements.

Items to be covered by Single modular transmitters.

Requirement per 15.212 and KDB 996369 D01 'Modular Certification Guide v04	Y/N	Comments/ Explanation from Grantee (Explain why product complies/how it is achieved)
1. 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	Yes	The nRF52840 SoC integrates internal built-in RF shielding for all radio transceiver circuitry. All critical RF circuits, matching components and tuning components are placed on the D73-nRF52840C08 module PCB assembly, meeting the shielding requirement for modular transmitter.
2. 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	Yes	All modulation and RF transmission parameters are fully controlled and locked inside nRF52840 firmware. External host data interfaces are buffered. Host input signals cannot modify transmit power, modulation format or RF operating parameters, ensuring continuous compliance with FCC Part 15 under all valid input conditions.
3. The module must contain power supply regulation on the module	Yes	Power supply regulation is implemented via the internal voltage regulators integrated within the nRF52840 SoC on the D73-nRF52840C08 module. The module supports supply via VDD (3.3V) or VDDH (up to 5V). The built-in regulators stabilize power for the RF transceiver, maintaining consistent RF operating conditions regardless of minor fluctuations in the input supply voltage supplied by the host.
4. 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 Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b)	Yes	The D73-nRF52840C08 module is equipped with permanently attached ceramic antenna, no external antenna connector is available. The module shall only be marketed and operated with this integrated ceramic antenna as designed, complying with § 15.203, §

		15.204(b), §15.204(c), §15.212(a) and §2.929(b).
5. The module must demonstrate compliance in a stand-alone configuration	Yes	All RF compliance testing of D73-nRF52840C08 module was completed under standalone operating configuration. The module can work independently without relying on any external host circuitry. All submitted test data are obtained from standalone module testing.
6. The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labelling requirements)	Yes	A permanently affixed physical FCC ID label will be placed on the surface of D73-nRF52840C08 module hardware. Label layout, text and format fully meet labelling requirements specified in KDB Publication 784748.
7. The module must comply with all specific rules applicable to the transmitter including all the conditions provided in the integration instructions by the grantee	Yes	The D73-nRF52840C08 module complies with all applicable rules under FCC Part 15 Subpart C for 2.4GHz intentional radiators. Complete module integration instructions are supplied to host manufacturers, listing all operating constraints to maintain compliance. Host integrators must strictly follow the integration guide.
8. The module must comply with RF exposure requirements	Yes	RF exposure MPE evaluation has been completed for D73-nRF52840C08 module according to FCC requirements. The evaluation proves the module meets RF exposure limits. Minimum separation distance requirements between antenna and human body are documented within the integration manual for host integrators.

Items to be covered by Split modular transmitters.

Requirement per 15.212 and KDB 996369 D01 'Modular Certification Guide v04	Y/N	Comments/ Explanation from Grantee (Explain why product complies/how it is achieved)
9. Split modular transmitters must meet all the requirements of a single modular in above item1 and 5 for single modular approval requirements.	N/A	
10. Only the radio front end must be shielded. The physical crystal and tuning capacitors may be located external to the shielded radio elements. The interface between the split sections of the modular system must be digital with a minimum signaling amplitude of 150 mV peak-to-peak.	N/A	
11. Control information and other data may be exchanged between the transmitter control elements and radio front end.	N/A	
12. The sections of a split modular transmitter must be tested installed in a host device(s) similar to that which is representative of the platform(s) intended for use.	N/A	
13. Manufacturers must ensure that only transmitter control elements and radio front end components that have been approved together are capable of operating together. The transmitter module must not operate unless it has verified that the installed transmitter control elements and radio front end have been authorized together. Manufacturers may use means including, but not limited to, coding in hardware and electronic signatures in software to meet these requirements, and must describe the methods in their application for equipment authorization.	N/A	

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

Name:

Date: 2026.08.11

Title:

Signature of applicant

kimi auyang