

OpenEmbed M&C

Modular Transmitter Approval Request

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

Company name: OpenEmbed M&C
FCC ID: 2BKE9-SOM7981

Gentlemen,

In accordance with 47CFR 15.212 Modular Transmitters and KDB 996369 D01 'Module Certification Guide v04'. FCC ID 2BKE9-SOM7981 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	with shielded.
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 inputs to the modules are buffered through logic or microprocessor Inputs.
3. The module must contain power supply regulation on the module	Yes	Low drop out regulator is used for modular power supply regulation. IC. MT7976C
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	Device is equipped with Integral antenna.
5. The module must demonstrate compliance in a stand-alone configuration	Yes	The module test in a stand-alone Configuration.
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	The modular has a penanent fixed label, and below statement was listed in the User Manual: The host device must be labeled to display the FCC ID of the module Contains FCC ID: 2BKE9-SOM7981
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 module comply with all specific mules applicable to the transmitter including all the conditions provided in the integration instructions by the grantee, Refer to test report and user manual.
8. The module must comply with RF exposure requirements	Yes	Transmitter meets MPE calculation of 47 CFR 1.1307 . Refer to MPE Reports and Refer to modular.

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.	No	/
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.	No	/
11. Control information and other data may be exchanged between the transmitter control elements and radio front end.	No	/
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.	No	/
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.	No	/

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

Name: Wenming Wang

Date: 2024-10-16

Title: CEO

Signature of applicant

