

Sichuan AI-Link Technology Co.,Ltd.

Modular Transmitter Approval Request

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

Company name: Sichuan AI-Link Technology Co.,Ltd.
FCC ID: 2AOKI-M6

Gentlemen,

In accordance with 47CFR 15.212 Modular Transmitters and KDB 996369 D01 'Module Certification Guide v04r02'. FCC ID **2AOKI-M6** 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 v04r02'	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	Y	<p>Yes, A complete metal shielding of the RF SoP section and the entire radar module is not possible at any time, because the mmW antenna radiation (of the antennas on chip topside) would be blocked. The mmW Si chip is working in a shielded area.</p> <p>Description: Between the entire active area (the silicon die) and the on chip antenna for TX and RX, a ground plane for shielding is placed. Below this shield GND, the Si mmW chip is located. Furthermore the mentioned shield GND is connected with vertical package through vias to the GND plane on the FR4 PCB.</p> <p>Both shield GND planes (the above the Si mmW Chip and the below one) are combined together via vertical package through vias and GND solderballs.</p> <p>These measures generates a 3D Faraday cage with the active RF silicon in the center. The radiation of the on chip antennas keeps unaffected.</p>
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	Y	YES, all inputs to the modules are buffered through microprocessor or logic inputs
3. The module must contain power supply regulation on the module	Y	YES, a low drop out regulator is used for modular power supply regulation
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	Y	YES, the requirements of antenna connector and spurious emission have been fulfilled. Please refer to the test report exhibition

Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b)		
5. The module must demonstrate compliance in a stand-alone configuration	Y	YES, compliance 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)	Y	YES, the module will be label with its own FCC ID
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	Y	YES, Please refer to the user manual if you comply with the rules.
8. The module must comply with RF exposure requirements	Y	YES, comply with RF exposure requirements

Items to be covered by Split modular transmitters.

Requirement per 15.212 and KDB 996369 D01 'Modular Certification Guide v04R02	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.		
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 signalling amplitude of 150 mV peak-to-peak.		
11. Control information and other data may be exchanged between the transmitter control elements and radio front end.		
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.		
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.		

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

Name: Caixia Hu

Date: May, 26th, 2025

Title: Engineer

Signature of applicant *Caixia Hu*