

Modular Approval Request FCC (KDB 996369 D01 & Part 15.212)

 FCC ID: 2AHMR-ESP32S

<i>Items to be covered by Single modular transmitters.</i>	<i>Answer from applicant</i>
1. The modular transmitter must have its own RF shielding.	The EUT has been shielded, please refer the EUT photos.
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.	The modular data inputs are buffered through log or microcontroller connections. All modulation and data inputs re buffered by circuitry on the transmitter chip(MT7662)
3. The modular transmitter must have its own power supply regulation.	Power supply regulation is provided by circuitry on the CPU chip (MT7662)
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(b)(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 EUT meet the FCC antenna requirements, the modular with a special joint antenna connector. And the antenna Is described in module user manual.
5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed.	The EUT is can transmitting Stand-alone, please refer the test setup photos.
6. The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number in accordance with 15.212 (a)(1)(vi)(A) / (B).	The module is labeled with its permanently affixed FCC ID label. The label position is clearly indicated. Please refer to label & label location information.
7. The modular transmitter must comply with any specific rule or operating requirements applicable to the 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. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured.	The EUT is full compliant with FCC rules, please refer the details in user manual.
8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 1.1310, 2.1091, 2.1093, and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance. Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance.	This module is complies with FCC CFR 47 part 2.1091 and FCC KDB 447498 D01 General RF Exposure Guidance v05r02 limit , Please refer RF exposure report.

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

Name and surname of applicant (or authorized representative): Harri Huang

Date: 2017.5.3

Signature: Harri Huang