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

FCC ID: WAP3058

Items to be covered by Single modular transmitters.	*Answer from applicant*
1. The modular transmitter must have its own RF shielding. ***The module contains a metal shield which covers all RF components and circuitry. The shield is located on the top of the board next to antenna connector***	YES
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. ***Data to the modulation circuit is buffered as described in the operational description provided with the application***	YES
3. The modular transmitter must have its own power supply regulation. ***The module contains its own power supply regulation. Please refer to schematic filed with this application***	YES
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 module connects to its antenna using an UFL connector which is considered a non-standard connector. A list of antennas tested and approved with this device may be found in users manual provided with the application***	YES
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 module was tested stand-alone as shown in test setup photographs filed with this application***	YES
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). ***There is a label on the module as shown in the labeling exhibit filed with this application. Host specific labeling instructions are shown in the installation manual .filed with this application.***	YES
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 module complies with FCC Part 15C requirements. Instructions to the OEM installer are provided in the installation manual filed with this application.***	YES
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	YES

installation and operating instructions for users, installers and other interested parties to ensure compliance. ***The module meets Portable exclusion levels as shown in the RF exposure information filed with this application***	

Items to be covered by Split modular transmitters.	***Answer from applicant***
1. The modular transmitter must comply with all requirements of a single modular transmitter except for items (1) & (5) of the above single modular approval requirements.	
2. 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.	
3. Control information and other data may be exchanged between the transmitter control elements and radio front end.	
4. 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.	
5. 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.	

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): ___ Xuejiao Zhang __

Date: __2019/11/29_____ Signature: _____