

Request for Modular Approval

Date: April 7, 2022

Subject: Manufacturer's Declaration for ☒ - Modular Approval ☐ - Split Modular Approval
☐ - Limited Modular Approval ☐ - Limited Split Modular Approval

Confidentiality Request for: IA9XPD900A

8 Basic Requirements – FCC Part 15.212(a)(1) For Items Marked "NO(*)", the Limited Module Description Must be Filled Out on the Following Pages		
Modular Approval Requirement	Requirement Met	
1. The modular transmitter must have its own RF shielding. This is intended to ensure that the module does not have to rely upon the shielding provided by the device into which it is installed in order for all modular transmitter emissions to comply with FCC limits. It is also intended to prevent coupling between the RF circuitry of the module and any wires or circuits in the device into which the module is installed. Such coupling may result in non-compliant operation. The physical crystal and tuning capacitors may be located external to the shielded radio elements. 15.212(a)(1)(i) <i>Details: The module contains a metal shield over the RF circuit and does not rely on shielding provided by a host product, please refer to the external photos.</i>	☒ - YES	☐ - NO(*)
2. The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with FCC requirements under conditions of excessive data rates or over-modulation. 15.212(a)(1)(ii) <i>Details: Data modulation and data rate are controlled by a CPU on the module. The data rate and modulation are not affected by applying signals on the transmitter's inputs, because all the inputs are buffered through logic or microprocessor inputs. Please refer to the schematics.</i>	☒ - YES	☐ - NO(*)
3. The modular transmitter must have its own power supply regulation on the module. This is intended to ensure that the module will comply with FCC requirements regardless of the design of the power supplying circuitry in the device into which the module is installed. 15.212(a)(1)(iii) <i>Details: The module contains its own power supply regulation. Please refer to schematic filed with this application.</i>	☒ - YES	☐ - NO(*)
4. The modular transmitter must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b), 15.204(c), 15.212(a), and 2.929(b). 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 "professional installation" provision of § 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph 15.212(b). 15.212(a)(1)(iv) <i>Details: The module connects to its antenna using an U.FL connector which is considered a non-standard connector. A list of antennas tested and approved with this device may be found in the Test Report provided with the application.</i>	☒ - YES	☐ - NO(*)
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. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see Section 15.27(a)). The length of these lines shall be length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified or commercially available (see Section 15.31(i)). 15.212(a)(1)(v) <i>Details: The module was tested stand-alone (not in a host) as shown in test setup photographs filed with this application. The module requires a host to operate. The host will supply power to the transmitter module. The module will be shipped and marketed with a host product. Together the transmitter and host comply with the AC line conducted requirements in Section 15.207.</i>	☒ - YES	☐ - NO(*)



Powering Business Worldwide

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Modular Approval Requirement	Requirement Met	
6. The modular transmitter must be labeled with its own FCC ID number, or use an electron display (see KDB Publication 784748). If using a permanently affixed label with its own FCC ID number, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization. If the modular transmitter uses an electronic display of the FCC identification number, the information must be readily accessible and visible on the modular transmitter or on the device in which it is installed. If the module is installed inside another device, then the outside of the device into which the module is installed must display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains FCC certified transmitter module(s)." Any similar wording that expresses the same meaning may be used. The user manual must include instructions on how to access the electronic display. A copy of these instructions must be included in the application for equipment authorization. 15.212(a)(1)(vi) Details: 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 User Manual filed with this application. The host system will have another label that states: "Contains FCC ID: IA9XPD900".	☒ - YES	☐ - NO(*)
7. The modular transmitter must comply with all specific rule or operating requirements applicable to the transmitter, including all the conditions provided in the integration instructions by the grantee. 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. 15.212(a)(1)(vii) Details: The module complies with FCC Part 15C requirements. The User Manual filed with this application provides module integration instructions.	☒ - YES	☐ - NO(*)
8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 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 in accordance with Section 15.247(b)(4). 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. 15.212(a)(1)(viii) Details: The module meets Portable exclusion levels as shown in the RF exposure information filed with this application. Refer to document "E10788-2103_Cooper Electrical_XPD900_RF_Exposure_Rev 1.0".	☒ - YES	☐ - NO(*)

Sincerely,
By:


(Signature/Title¹)

Business Manager

Patrick Ho

(Print name)

¹ - Must be signed by applicant contact given for applicant on the FCC site, or by the authorized agent if an appropriate authorized agent letter has been provided. Letters should be placed on appropriate letterhead.