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Federal Communications Commission
Authorization and Evaluation Division

Regarding modular approval for FCC ID:X6EMT240

The following outlines how the X6EMT240 meets the requirements for approval as a single modular transmitter:

- **The radio elements of the modular transmitter must have their own shielding.**

The radio elements are completely shielded by a metallic cover that is soldered to the PWB and can be seen in the exhibit "X6EMT240 External Photos.pdf".

- **The modular transmitter must have buffered modulation/data inputs to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.**

The modular transmitter operation is completely controlled by the logic components of its internal circuitry. These logic components, by design, reject any external input signals that may cause excessive data rates or over-modulation.

- **The modular transmitter must have its own power supply regulation.**

The internal circuitry of the modular transmitter includes a low drop out regulator with an output voltage set at 3.3 VDC. This regulator supplies power to all of the components of the modular transmitter.

- **The modular transmitter must comply with the antenna and transmission system requirements of §§15.203, 15.204(b) and 15.204(c).**

The transmitter utilizes an integral antenna and has no means of connecting an external antenna and therefore meets this requirement.

- **The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with Part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in §15.207.**

The transmitter was tested in a stand-alone configuration. We used a test platform supplied by the Chip vendor.

- **The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number 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. 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**

The transmitter is equipped with a permanently affixed label with its own FCC identification number as shown in exhibit "X6EMT240 Label Example for module.pdf".

The transmitter is supplied with a label to be affixed to the outside of the host product as shown in exhibit "X6EMT240 Label Example for host product.pdf".

- **The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete 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.**

This transmitter module does not allow the operator to make any changes to transmission. The functionality is completely controlled by firmware. This module will be used exclusively within CPS products and will not be available to the general public.

- **The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.**

As stated in FCC 47 CFR , 1.1307, "All other mobile, portable, and unlicensed transmitting devices are categorically excluded from routine environmental evaluation for RF exposure under §§2.1091, 2.1093 of this chapter except as specified in paragraphs (c) and (d) of this section."

Sincerely,



José Sacerio.
Senior Product Design Engineer
CPS Products, Inc.