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Declaration of the Modular Approval

Applicant / Grantee	M82
FCC ID:	M82-EPD-132-092
Model:	EPD-132, EPD-092

The single module transmitter has been evaluated then tested meeting the requirements under Part 15C Section 2.12 as below:

Modular approval requirement	EUT Condition	Comply
(a) The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.	EPD-132/092 module have their own shielding on the on board RF module(WM-BN-BM-22)	Refer to the photo file.
(b) 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.	All inputs are processed as data by on-chip MCU. The outside user has no direct control of transmit modulation. The module can interface to externality using GPIOs/SPI/USB/UART/I2C/JTAG interface.	Refer Appendix User Manual
(c) The modular transmitter must have its own power supply regulation.	The module contains its own voltage regulation circuit. In case of supply voltage variation, the voltage will be stabilized.	Refer Appendix "WM-BN-BM-22_Hardware SPEC_V13_2016062 4"Page 6 Block Diagram"
(d) The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(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 "professional installation" provision of Section 15.203 is not applicable to modules but can apply to limited modular approvals under	Refer to the module photo.	Y

<p>paragraph (b) of this section.</p>		
<p>(e) The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i>, 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 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 the 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 and commercially available (see Section 15.31(i)) must not be inside another device during testing.</p>	<p>The modular transmitter is tested in a stand-alone condition.</p>	<p>Refer Appendix User Manual</p>
<p>(f) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.</p>	<p>The module will be labeled with FCC ID number.</p>	 <p>Refer to the label drawing.</p>
<p>(g) 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 requirements, which are</p>	<p>The module is compliant with applicable FCC Rules. Instructions are provided in User Manual.</p>	<p>Refer to Appendix User Manual</p>



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based on the intended use/configurations.		
(h) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The unit is compliant with the RF exposure requirements of Parts 15.247 and 2.1091.	Refer to Appendix User Manual

Dated

2019/07/23

By:

Lily Huang

Title:

Assistant Manager

Advantech Co., Ltd.

On behalf of :

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