

## Safety and Productivity Solutions

9680 Old Bailes Road, Fort Mill, SC 29707, USA www.honeywell.com www.honeywellaidc.com

Applicant HONEYWELL INTERNATIONAL INC				
FCC ID: HD5-PC11AX				
Section 15.212 Modular Transmitters				
Request for Single Modular Approval	Yes	Request for Limited Modular Approval	No	
SL. No	Requirement	EUT Condition	Comply (Yes/No)	
1	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	The Radio elements including transmitter is enclosed inside the shield. Tuning capacitors and passive filters are located outside the shield. Also, Tuning capacitor and passive filters are located on the module Assembly only.	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	The communication to the radio uses digital technology. The communication buffering eliminates the ability to over- modulate the radio under all conditions.	Yes	
3	The modular transmitter must have its own power supply regulation	The Module has on-chip voltage regulation for 1.1VDC & 3.3VDC Input	Yes	
4	The modular transmitter must comply with the antenna and transmission system requirements of §§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 §15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section	There is no onboard antenna on the module. The RF Trace from the chipset gets connected to the antenna terminals using 50 ohms matching trace. The Antenna terminals are specially designed so that it gets fixed to host board. It's a custom designed antenna with special connector (U.FL)	Yes	



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5	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. 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 §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 §15.31(i))	The module was not kept inside any enclosure or within any equipment. It was interfaced with Host board for Testing and the board was exposed for all the tests. There were no additional ferrites used for any cables connected to Module or host board. The Module was interfaced to Host board via Connector 40pin connector. There were no cables in between Host board and Module. There was no accessories, peripherals or support equipment connected to the module.	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	The Label is affixed on the Module displaying the FCC ID HD5- PC11AX	Yes

A full modular approval may be granted for single or split modular transmitters that do not comply with all of the above requirements, e.g., shielding, minimum signaling amplitude, buffered modulation/data inputs, or power supply regulation, if the manufacturer can demonstrate by alternative means in the application for equipment authorization that the modular transmitter meets all the applicable Part 15 requirements under the operating conditions in which the transmitter will be used. Limited modular approval also may be granted in those instances where compliance with RF exposure rules is demonstrated only for particular product configurations. The applicant for certification must state how control of the end product into which the module will be installed will be maintained such that full compliance of the end product is always ensured

Sincerely,

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