



RESEARCH & ENGINEERING ■ 750 MONTE RD ■ BENTON HARBOR, MI 49022

April 18, 2016

Dear Application Examiner,

Whirlpool Corporation, would like to have your authorization for Module Approval specific to the Amber device as described herein. The Amber module utilizes 802.11 b/g/n WiFi to provide communication to appliances like Home Residence Washer, Dryer, Refrigerator, Dishwasher, Oven/Range/Cooktop, and Commercial Laundry Washers and Dryers. The FCC Identification is A5UWICHAM01. The requirements of FCC Code of Federal Regulations Title 47 Part 15.212 have been met as shown below:

FCC Modular Approval Checklist:

Modular approval requirement	Yes	No
15.212 (1)(i) 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.	X	
Explanation: The radio elements are shielded - see the external photos.		
15.212 (1)(ii) 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.	X	
Explanation: The data inputs are buffered on the transceiver module by the Microprocessor IC.		
15.212 (1)(iii) The modular transmitter must have its own power supply regulation.	X	
Explanation: The module contains internal voltage regulation on the 4.5 - 16 VDC input converting to 3.3, 1.8, and 5VDC for use by the radio circuit.		
15.212 (1)(iv) 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.	X	



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Explanation: The module meets the requirement and the description is in the operational description exhibit.		
Modular approval requirement	Yes	No
15.212 (1)(v) The modular transmitter must be tested in a stand-alone configuration.	X	
Explanation: The module was tested in a standalone configuration.		
15.212 (1)(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	X	
Explanation: The module is labeled with an FCC ID - see the label drawing exhibits. FCC ID: A5UWICHAM01		
15.212 (1)(vii) 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.	X	
Explanation: Instructions for use are included in the users' manual exhibit.		
15.212 (1)(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	X	
Explanation: The EUT is compliant with all RF exposure requirements.		

Please contact me if you have any further questions. Thank you for your attention to this matter.

Regards,

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