

Honeywell International Inc.
1860 W. Rose Garden Lane
Phoenix, AZ 85027-2708

To whom it may concern,

Honeywell International Inc. is submitting this packet of information to the Federal Communications Commission for your review and approval. The subject equipment is the Wireless Multi-Protocol Receiver (WMPR Series) described below. Holjeron is a contract supplier to Honeywell, assisting with the design and manufacturing of the WMPR Series. Your efforts in reviewing this application are greatly appreciated.

The WMPR Series uses the 50085177-001 Low Cost ISA100 Radio Module that operates in the 2.4GHz band per IEEE 802.15.4. The radio module includes a 16Bit microcontroller which is interfaced to an IEEE802.15.4 compliant Radio Transceiver in order to provide a wireless communication over 15 channels of the 2.4GHz band. The module also includes a RF Power Amplifier and a RF Low Noise Amplifier to enhance the range of the wireless communications. The module can communicate with the target boards through its connector over SPI. It can send out or receive data thru the target board using this SPI connection. Protocol specific Modulation/De-Modulation is done in the radio transceiver and the IEEE802.15.4 packet is taken care of by the Radio Transceiver on the Module.

To support the FCC certification of our product, the WMPR was tested at Northwest EMC under test report number HOLE0018. The 51306799-001 Low Cost ISA 100 Radio Module was previously tested at TUV Rheinland under test report number 01200140001.

The differences in the radios tested at Northwest EMC and TUV Rheinland are as follows:

Radio Module Tested alone at TUV Rheinland:	Radio Module Tested in the WMPR at Northwest EMC:
<ul style="list-style-type: none">Multiple Tx power levels and multiple types of Omni antennas with various connector types were tested.	<ul style="list-style-type: none">A fixed Tx power level and one Omni antenna type was tested.
<ul style="list-style-type: none">The Radio Module was tested alone with original hardware and software.	<ul style="list-style-type: none">There were no changes made to the Radio Module when tested in the WMPR.
<ul style="list-style-type: none">The Radio Module was tested with the power levels and antenna set shown in the TUV report.	<ul style="list-style-type: none">The WMPR was tested with the same power level settings as the original TUV radio module testing or a lower value. There was no increase in power level when testing in the WMPR.
<ul style="list-style-type: none">The Radio Module was tested with the antenna set as described in the TUV report.	<ul style="list-style-type: none">The WMPR was tested with the same antenna set, except we are offering three additional lower gain, remote mount antennas.

<ul style="list-style-type: none">Part number for the Radio Module was 51306799-001 in 2012.	<ul style="list-style-type: none">Part number for the Radio Module in 2015 when tested in the WMPR is 50085177-001. The two radio modules are identical. Not differences other than part numbers used by different groups within Honeywell.
<ul style="list-style-type: none">Power level settings during testing were 20dBm, 15dBm and 11dBm for compliance when using antennas of different gains.	<ul style="list-style-type: none">When tested in the WMPR, the fixed gain was 11dBm for all testing.

We are seeking a Class II permissive change and with applicable rule part 15.247. The FCC ID number is S5751306799 and the IC ID number is 573I-51306799.

If there are any questions, please feel free to contact us.

Sincerely,



David Shipley
Approvals Engineer
Honeywell International Inc.
David.Shipley@honeywell.com
Phone: 602-293-15555