

RE: 2Wire, Inc.

FCC ID: PGR2WHPLHW

1) From review of the internal photographs, the device appears to have 2 antennas. However the block diagram appears to show 3 antennas. Please provide labeled photographs or further information to clearly show which antennas are TX and which are RX.

**Response: The incorrect Internal photos were provided. The correct internal photos showing the three antenna, which are label TX and RX, have been uploaded.**

2) The RF exposure and test report mentions that the antenna gain is 2 dBi, while the block diagram appears to show 0.7 dBm(?). Please explain.

**Response: Block diagram has been corrected.**

3) The test report states that "the ethernet ports were not connected, as these are not required during the test portion". The FCC expects Part 15 devices to be tested under worse case conditions/configurations since it is uncertain if cables may contribute to the radiated readings and the number of cables used by the end user is installation dependent. Note that ANSI C63.4 section 13.1.2 for intentional radiators references section 6.2 for configuration of the device. Preliminary testing or additional testing should have been performed in order to evaluate the effect (if any) that these cables have on measurements > 1 GHz.

**Response: A pre-scan was performed in a chamber to determine if the cables will add to the Radios emissions. It was determined that the cable had no affect on the emission of the Radio and most of the spurious radiation was due to poor shielding or non-linearity of the radio's amplifier.**

4) Please explain the difference between the 1800HW and 1000HW models that appear to be covered by this application.

**Response: 1800HW is a 4 port Ethernet and the 1000HW is a 1 port Ethernet. Both are the same in radio and hardware design.**

5) FYI, the RF exposure mentions UNII band. This device falls under spread spectrum/DTS bands, not the UNII band.

**Response: Understood.**

6) FYI, this application only covers the requirements for Part 15. Note that applicable Telecom requirements are not included in this certification.

**Response: Understood.**

Hopefully this answers all of your questions. Please contact me via [doc@elliottlabs.com](mailto:doc@elliottlabs.com) if you require more information.

Regards,

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