



Professional Testing (EMI), Inc.
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March 9, 2011

On behalf of uControl, Inc., Professional Testing (EMI), Inc. is seeking a limited modular approval for the Zigbee Takeover Module. Requirements listed in FCC part 15.212 and Section 3.2.2 of RSS-Gen Issue 3 are addressed below.

- 1) The module has a memory management unit inside of the IC. The processor interfacing with the external application by means of general purpose I/O (GPIO), UART, SPI. The processor interfaces also the RF part of the module exchanging data and command with it.
- 2) The Zigbee Takeover Module is not technically an RF module. i.e. it is not a generic RF power amplifier whose output could be modulated / interfered with. The Zigbee Takeover Module is a self contained Zigbee device. There are no critical parts that would benefit from RF shielding. The circuit is a low duty cycle device, and did not distinctly require shielding for EMI reasons. Installation of the Zigbee Takeover Module will always be controlled by a certified technician only and will always only be utilized with the uControl Open home Converge Panel Interface.
- 3) The module is powered from an external 12V DC supply. The 12V is stepped down to 3.3V via a high efficiency switching regulator.
- 4) The modular transmitter complies with AC line conducted requirements found in FCC 15.207. This data is contained in the Test Report exhibit.
- 5) The antenna requirement is satisfied by the use of a PCB integrated antenna.
- 6) The module was tested in both a stand-alone configuration, free of an enclosure, as well as one of the intended host forms. The worst case emissions were reported.
- 7) A sticker is affixed to the back side of the Zigbee Takeover Module. The manual contains the explicit directions to label the exterior of the device into which the Zigbee Takeover Module is integrated with "Contains FCC ID: Y6Q- SMCTB01Z".
- 8) The Users Manual explains that any modifications may strictly void the certification and a separate approval must be obtained.
- 9) Emissions are far below the RF Exposure limits.

A handwritten signature in black ink, appearing to read "Layne Lueckemeyer".

Layne Lueckemeyer