



Operational Description

This device is a Wireless 11a/b/g/n Mini PCI module, which operates in the 2.4GHz/5GHz frequency spectrum with throughput of up to 54Mbps (or 300Mbps with draft 802.11n) which OFDM technique will be applied. If the signal to noise ratio is too poor which could not support 54Mbps (or 300Mbps with draft 802.11n), the 11Mbps data rate with DSSS technique will be applied.

The transmitter of the EUT is powered by host equipment. The antenna is PCB antenna with U.FL-R-SMT antenna connector.

FCC 15.407(c) states: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met”

Data transmission is always initiated by software, which is then pass down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets (ACKs, CTS, PSpoll, etc...) are initiated by the MAC. There are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets are being transmitted.

For more detailed instruction, please take a look at the user’s manual.