

## Operational Description

This device is an 802.11 a/b/g/n MiniPCI module which operates in the 2.4GHz and 5GHz frequency spectrum with throughput of up to 300Mbps. If the signal to noise ratio is too poor which could not support 300Mbps, the 11Mbps data rate with DSSS technique will be applied. In normal operating condition, 2 transmitting modes of antenna are supported for user, one is single antenna transmitting, the other is 2 antenna transmitting.

This modular will be plugged into the following host

BRAND	PRODUCT NAME	MODEL NO.
Cisco	STEELER	Cisco891-W

Following modulation types are supported for this device

DSSS: CCK, DQPSK, DBPSK

OFDM: 64QAM, 16QAM, QPSK, BPSK

The transmitter of the EUT is powered by host equipment.

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

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.