

## **1.1 PRODUCT DESCRIPTION**

The model SWL-2000N (referred to as the EUT in this report) is a Direct Sequence Spread Spectrum wireless LAN, PCMCIA network card. The EUT provides wireless communications between computers. The EUT is designed to be installed into the PCMCIA slot of a notebook computer or desktop computer with a PCMCIA slot. The EUT communicates with other wireless LAN cards using the frequency range from 2.411 GHz to 2.462 GHz. The EUT is powered from the PCMCIA slot, and does not have an external power supply. The EUT uses a stub antenna attached to a left-turn SMA connector or an internal PCB trace antenna. The EUT uses 2-bits encoded to 4 complex code words; 2-DQPSK CCK modulation technique with 8 Chips per symbol, spread clock rate is 1.375 MHz symbol/sec, and the data rate = 11 MBPS.