Operational Description

The EUT (PDT (Portable Data Terminal)) includes two transmission functions which are WLAN (IEEE 802.11b) and Bluetooth.

DSSS Information:

Direct Sequence Spread Spectrum, the data is mixed by pseudorandom code which is an orthogonal code. The mixed data is digital modulated by BPSK and QPSK technique depends on the data rates.

The CCK coding is applied for increasing the data rate, and also the processing gain will be increased. The bit rates are 1, 2, 5.5, 11Mbps, the symbol rates are 1, 1.375Mbps, the chip rates are always 11Mbps.

So, the Chip/symbol is 11 and 8 respectively. Although is higher bit rate, the processing gain is lower than 10, but the CCK coding used in higher bit rate will provide 2.5dB coding gain.

The transmitter of the EUT is powered by the battery or the power adapter. The antenna is chip antenna without antenna connector. The other instruction, please have a look at the users manual.

FHSS Information:

The transmitter of the EUT (PDT (Portable Data Terminal)) is powered by the battery or the power adapter. The antenna is PIFA antenna with I-PAX antenna connector.

This device is a Frequency Hopping device with 79 hopping frequencies.

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