Operational Description

This device is a Pocket PC which consists with WLAN Card and Bluetooth, both transmitters can not transmit at the same time.

The EUT (Pocket PC) is powered by AC adapter. The antenna types are Inverted-F antennas with UFL antenna connector. The other instruction, please have a look at the users manual.

DSSS Information

This device is 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 1,1,1.375,1.375Mbps, the chip rates are always 11Mbps.

So, the Chip/symbol is 11,11,8 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 2.2dB coding gain.

FHSS Information

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