

Operational Description

The transmitter of the EUT (Long Range Wireless LAN PC Card) is powered by host equipment via a PCMCIA interface. The antenna is Dipole antenna, and the antenna connector type is MMCX. Under normal use condition, the user has to keep at least 20cm separation distance between radiator and the body of the user. This project is seeking the authorization of limited module approval specific to the mobile device such as Access Point and Router.

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.