

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, 11 Mbps, the symbol rates are 1, 1, 1.375, 1.375 Mbps, the chip rates are always 11Mbps.

So, the Chip/symbol is 11, 11, 8 and 8 respectively. Although in 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.