

Modulating Signal Description

The proposed system to be studied will operate with the same base-band and modulated signal that is currently used in the IEEE 802.11g specification. This is a spectrally shaped Orthogonal Frequency Division Multiplexed (OFDM) signal with adaptive equalization. Symbol rates and bits per symbol are dynamic, based on the channel bit error rate of the link. Note that the spectral shaping ensures that the occupied bandwidth fits within a 18 MHz wide -23 dB from peak envelope under all conditions.