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The theory of Wireless Network Card:

The EUT (802.11b/g Wireless Network Card) is fully compatible with IEEE 802.11b and IEEE 802.11g, the maximum data rate could be up to 54Mbps (108Mbps for Turbo mode, channel 6) which OFDM technique will be applied. If the signal to noise ratio is too poor which could not support 54Mbps, the EUT can auto-sense capability allows high packet transfer rate.

The card adopted AR2524(MAC) and AR2124(RF) which are produced by Atheros. AR2524's main frequency is 40MHz.

Your wireless communications are protected by WPA/WPA2/... encryption for high security.

The antenna which has 2dBi gain has been mounted on PCB used a connector.