Wireless ADSL Modem working theorem divided into two parts: Wireless and ADSL.

Wireless working theorem: the frequency of Wireless is 2.4GHz ISM (Industrial- Scientific-Medical) band, working frequency is 2.400GHz to 2.4835GHz and use Direct Sequence Spread Spectrum technology to reduce interference of data transmission and receiving, and increase security of information transferring. Data was transmitting and receiving during 11 channels by DSSS technology. The data signal transmitted and received through wireless module and antenna between ADSL Modem and each working station.