

## **1.2. Operational Description**

EUT is a WiFi EMTA Cable Modem. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps for IEEE 802.11b and eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps for IEEE 802.11g. The device of RF carrier is DQPSK, DBPSK and CCK.

The device adapts Digitally Modulation Spread Spectrum modulation. The Connector antenna was provides diversity function to improve the receiving function.

This Wireless Router, compliant with IEEE 802.11b and IEEE 802.11g, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direct Sequence Spread Spectrum (DSSS) radio transmission for IEEE 802.11b and Orthogonal Frequency Division Multiplexing (OFDM) for IEEE 802.11g, the Wireless Router Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g network.

### **What the Modem Does**

THE EUT is an integrated telephony and wireless gateway that is Cable Labs DOCSIS 1.0/1.1/2.0, CableHome1.1 and Packet Cable 1.0/1.1 compliant product that provides high-speed Internet access as well as primary line telephony, and fax/modem services via an existing CATV infrastructure. The EUT is equipped with 2-RJ-11 POTS interfaces, 4-port Ethernet switch, USB, and IEEE802.11b/g Wireless interfaces. The EUT can inter-operate with the Packet Cable compliant head end equipment and provide the IP-based voice communications.

### **What the Modem Needs to Do Its Job**

**The Right Cable Company:** Make sure your local cable company provides data services that use cable TV industry-standard DOCSIS-compliant and Packet Cable-compliant technology. **The Internet/Telephony Service Provider (ISP/TSP):** Your cable company provides you access to an Internet Service Provider (ISP) and Telephony Service Provider (TSP). The ISP is your gateway to the Internet and provides you with a pipeline to access Internet content on the World Wide Web (WWW). The TSP provides you with telephony access to other modems or other telephony services over the Public Switched Telephone Network (PSTN).