

Wireless Characteristics of the Routers

The EUT is based on the IEEE 802.11g standard. This standard operates in the ISM (Industrial, Science and Medicine) band at 2.4GHz to 2.4835GHz. The EUT is powered by a 5-9V DC power supply.

The EUT is designed for home and office use, and is relatively low-powered at 100mW RF transmit power. The EUT functions as a "wireless network switch" to connect wireless notebooks and PCs to the Ethernet-wired Network. The IEEE 802.11g is designed to be a low-cost, low-powered, near-distance networking standard. The device uses an omnidirectional antenna with less than 3dBi gain.

All RF tuning is performed by the manufacturer and the user is not able to increase the RF transmit power beyond that limited by FCC and CE regulations.

Detailed RF characteristics can be seen in the table below.

Wireless	
Frequency	2.4 GHz to 2.4835 GHz
Modulation	Orthogonal Frequency Division Multiplex (OFDM for 54Mbps) Direct Sequence Spread Spectrum (DSSS for 11Mbps devices)
Channels	11 Channels (US, Canada) 13 Channels (Europe) 14 Channels (Japan)
Data Rate (wireless)	54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps & 108 Mbps at turbo mode (optional).
Security Encryption	64-bit, 128-bit and 152-bit WEP encryption