

Operational Description of the equipment

The EUT is an 802.11 b/g/n Wireless PCI Card with 11 channels.

This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps and the device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b).

The device provided of eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11g).

The device provided of eight kinds of transmitting speed 13,26,39,52,78,104,117 and 130Mbps in 802.11n(20M-BW) mode and 27,54,81,108,162,216,243,270 and 300Mbps(40M-BW) the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11n), the IEEE 802.11n is Multiple In, Multiple Out" (MIMO) technology and two antennas to support 2(Transmit) * 2(Receive) MIMO technology.

This 802.11 b/g/n Wireless PCI Card, compliant with IEEE 802.11b and IEEE 802.11g/n, is a high-efficiency Wireless LAN card. 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) and Orthogonal Frequency Division Multiplexing (OFDM) radio transmission, the 802.11 b/g/n Wireless PCI Card 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/n network.

More detailed information see as bellow :

PRODUCT	802.11 b/g/n Wireless PCI Card
MODEL NO.	LP-7665
BRAND	LOOPCOMM
POWER SUPPLY	DC power source from PC 3.3V
CABLE	N/A
FREQUENCY BAND	2.400GHz ~ 2.483.5GHz
CARRIER FREQUENCY	2.412GHz ~ 2.462GHz ; 2.422GHz ~ 2.452GHz
CHANNEL SPACING	5 MHz
NUMBER OF CHANNEL	b/g/n(20M):11 ; n(40M):7
CHANNEL SPACING	20MHz
RF OUTPUT POWER	11n(20M):0.023W ; 11n(40M):0.009W 11g : 0.026W ; 11b : 0.026W
MODULATION TYPE	11b : DSSS ; 11g/n : OFDM
BIT RATE OF TRANSMISSION	11b: 1, 2, 5.5, 11Mbps 11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 11n(20M) : 13,26,39,52,78,104,117, 130Mbps 11n(40M) : 27,54,81,108,162,216,243,270,300Mbps
MODE OF OPERATION	Half Duplex
ANTENNA TYPE	Reverse SMA Dipole
ANTENNA GAIN	2 dBi
OPERATING TEMPERATURE RANGE	0 ~ 55°C