802.11b Wireless LAN USB Adapter

The DWL-122 wireless LAN USB adapter cost-effectively connects your computer to a 802.11b wireless LAN. This adapter simply plugs to a USB 1.1 port of your computer, transfers data at up to 11Mbps, and provides data encryption of 40 or 128 bits for security. With industry standard interoperability and plug-and-play installation, this adapter is an ideal solution for notebook and desktop PC users needing standard wireless network connection.

Pocket Size & Easy Plug In
With its integrated Microstrip antenna, the DWL-122 directly plugs into any USB port on your PC. It is an attractive, portable pocket-sized wireless device, and can fit into your pocket or carrying case, allowing for easy carry.

Industry-standard Interoperability
With industry standard compliance, the DWL-122 adapter is fully interoperable with other 802.11b compliant wireless devices.

Network Security
Security is not an issue when data is transmitted without the wires. In the air, transmitted data can be easily intercepted if not well protected by a security scheme. The DWL-122 provides the necessary security, using the enhanced 40/128-bit industry-standard WEP (Wired Equivalent Privacy) encryption protocol.

Easy Installation
With hot swap and plug-and-play capabilities, the DWL-122 adapter provides connectivity directly to another 802.11b wireless enabled device (ad-hoc mode) or through an 802.11b Access Point (infra-structure mode). The adapter's support for Windows and MacOS ensures that you'll be up and running on a wireless network in just a matter of seconds.

Key Features
- IEEE 802.11b industry standard compliance
- 2.4GHz frequency band Direct Sequence Spread Spectrum (DSSS)
- USB 1.1 connection to notebook/desktop computer
- Up to 11Mbps data transfer rate
- Security with 40/128-bit WEP data encryption
- Integrated Microstrip antenna
- Pocket-sized, lightweight
- Supports Windows 98 SE, 2000, ME, XP, MacOS 10.2x
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Specifications subject to change without prior notice.

Ordering Information

**DWL-122** 802.11b Wireless LAN USB 1.1 Adapter

Please specify your order as follows:

**DWL-122/NA** North America frequency
**DWL-122/EU** EU frequency
**DWL-122/CN** China frequency
**BDWL-122** For USA
**CDWL-122** For Canada
**TDWL-122** For Taiwan

**Technical Specifications**

**Standard**
- IEEE 802.11b wireless LAN
- USB 1.1

**Media Access Control Protocol**
CSMA/CA

**Network Architecture Types**
- Supports Ad-Hoc and Infrastructure Modes
- Cell to cell roaming (IEEE 802.11b compliant)

**Data Rates (Auto Scaling)**
- 11 Mbps
- 5.5 Mbps
- 2 Mbps
- 1 Mbps

**Modulation Technology (RF)**
Direct Sequence Spread Spectrum (DSSS)

**Spreading**
11-chip Barker Sequence

**Modulation Scheme**
DQPSK, DBPSK and CCK

**Modulation Techniques**
- 11Mbps: CCK
- 5.5Mbps: CCK
- 2Mbps: DQPSK
- 1Mbps: DBPSK

**Operating Frequency**
2.4 - 2.497 GHz ISM band

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- 2.4 - 2.497 GHz ISM band (for Japan)
- 2.4 - 2.4835 GHz (for FCC, ETSI)

**Operating Channels**
- North America (FCC): 11
- Canada (DOC): 11
- Europe (ETSI): 13

**Receiver Sensitivity**
- 11Mbps @ 8% PER (Packet Error Rate): -81dBm
- 2Mbps @ 8% PER (Packet Error Rate): -86dBm

**Transmit Output Power**
16dBm +/- 2dBm

**Key Management**
Automatic Dynamic Key Allocation (ADKA) through public key

**Data Security**
- 40/128-bit WEP (Wired Equivalent Privacy) encryption
- Supports open system (OSA) and shared key authentication (SKA)

**Antenna**
Integrated Microstrip antenna

**Mobility**
Seamless roaming across cell boundaries within access point range

**Operating Range (Open Environment)**
- Indoors: Up to 100 meters (328 feet)
- Outdoors: Up to 300 meters (984 feet)

**Data Security**
- 40/128-bit WEP (Wired Equivalent Privacy) encryption
- Supports open system (OSA) and shared key authentication (SKA)

**Physical & Environmental**

**Diagnostic LEDs**
- Power
- Link/Activity

**Operating Voltage**
5V DC +/- 5%

**Power Consumption**
- Transmission: 270mA max.
- Reception: 240mA max.
- Sleep mode: 60mA max.

**Power Input**
USB bus power, no external AC power adapter required

**Dimensions**
82.5 mm (L) x 27.2 mm x 12 mm (H) (adapter only)

**Weight**
20 grams (adapter only)

**Operating Temperature**
0° - 55° C (32° - 131° F)

**Storage Temperature**
-20° - 75° C (4° - 167° F)

**Humidity**
5% - 95% non-condensing

**Emission Certification**
- FCC Part 15.247, 15.205, 15.209
- CE: EN 300 328 (ETSI)
- Japan: ARIB STD-T66 and RCR STD-33A

**Software**
- O.S. Support
  - Windows 98 SE, 2000, ME, XP
  - MacOS 10.2.x and later

**Package Includes**
- DWL-122 USB adapter
- Software driver CD
- Quick Installation Guide
- USB extension cable