

Air



— DWL-122

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

DWL-122

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) *

* Environmental factors may adversely affect operating range

Physical & Environmental

Diagnostic LEDs

- Power
- Link/Activity

Operating Voltage

5V DC +/- 5%

Power Consumption

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

2.4GHz Wireless LAN

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 10.2x and later

Package Includes

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



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

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Canada	TEL: 1-905-8295033	FAX: 1-905-8295095
Europe	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Benelux	TEL: 31-10-2045740	FAX: 31-10-2045880
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Iberia	TEL: 34-93-4090770	FAX: 34-93-4910795
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
Norway	TEL: 47-22-309075	FAX: 47-22-309085
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Finland	TEL: 358-9-2707-5080	FAX: 358-9-2707-5081
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-8518-2533	FAX: 86-10-8518-2250
India	TEL: 91-22-652-6696	FAX: 91-22-652-8914
Egypt	TEL: 202-62-44615	FAX: 202-62-44583
UAE	TEL: 971-4-3916480	FAX: 971-4-3908881
Turkey	TEL: 90-212-335-2525	FAX: 90-212-335-2500
Israel	TEL: 972-9-9715700	FAX: 972-9-971-5601
Chile	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brasil	TEL: 55-11-3094-2910	FAX: 55-11-3094-2921
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Russia	TEL: 7-095-737-3389	FAX: 7-095-737-3390
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
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