



— DWL-610

802.11b Wireless LAN CardBus Adapter

The D-Link Air DWL-610 is a powerful CardBus adapter for notebook PCs. This adapter connects you to a 2.4GHz wireless LAN, giving you wireless access to the network. With fast 32-bit PC Card Type II interface, the DWL-610 provides industry standard interoperability, strong data security and ease of use ideal for notebook PC users requiring wireless network connection.

Industry-standard Interoperability

With IEEE 802.11b wireless LAN industry standard compliance, the DWL-610 adapter provides network interoperability for wireless connectivity.

Network Security

Security is 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-610 provides the necessary security, using 64/128-bit industry-

standard WEP (Wired Equivalent Privacy) encryption protocol. Data privacy mechanism is based on a shared key algorithm, as described in the wireless LAN standard.

Easy Installation

With hot swap and plug-and-play capabilities, the DWL-610 adapter can be easily installed into a notebook PC to provide connectivity directly to another wireless enabled device (ad-hoc mode) or through an Access Point (infra-structure mode).

Key Features

- 32-bit high-performance CardBus (PC Card Type II) adapter for notebook PC
- IEEE 802.11b industry standard compliance
- 2.4GHz frequency band Direct Sequence Spread Spectrum (DSSS)
- 11Mbps data transfer rate
- Security with 64/128-bit WEP data encryption
- Supports Windows 98, 2000, ME, XP

DWL-610

Technical Specifications

2.4GHz Wireless LAN

Standards & Hardware Specifications

LAN Standard

IEEE 802.11b wireless LAN

Adapter Type

PC Card Type II CardBus

Media Access Control Protocol

CSMA/CA

Network Architecture Types

- Supports Ad-Hoc and Infrastructure Modes
- Cell to cell roaming

Data Rates

- 11 Mbps
- 5.5 Mbps
- 2 Mbps
- 1 Mbps
- Auto fall-back

Data Rate & Modulation Scheme

- 11Mbps: CCK
- 5.5Mbps: CCK
- 2Mbps: DQPSK
- 1Mbps: DBPSK

Operating Channels

- North America (FCC): 11
- Canada (DOC): 11
- Europe (ETSI): 13
- Japan (MKK): 14

Sensitivity @ PER<0.08

- 11Mbps: -83dBm @ 8% PEP (Packet Error Rate)
- 2Mbps: -90dBm @ 8% PEP (Packet Error Rate)

Frequency Range

2.4 to 2.497 GHz ISM band

Modulation Techniques

- Direct Sequence Spread Spectrum (DSSS)
- Complementary Code Keying (CCK)
- 11-chip Barker Sequence

Key Management

Automatic Dynamic Key Allocation (ADKA) through public key

Data Security

64, 128-bit WEP (Wired Equivalent Privacy) encryption

Antenna

Integrated Microstrip antenna

Transmitter Output Power

16dBm (typical)

Mobility

Seamless roaming across cell boundaries within access point range

Range Coverage (Open Environment)

- Indoors: Up to 100 meters (328 feet) *
- Outdoors: Up to 400 meters (1,312 feet) *

* Environmental factors may adversely affect operating range

Physical & Environmental

Diagnostic LEDs

- Link
- Activity

Operating Voltage

3.3VDC +/- 5%

Power Consumption

- Transmit mode: 350 mA (max.)
- Receive mode: 180 mA (max.)
- Sleep mode: 30 mA (max.)

Dimensions

115 (L) x 49 (W) x 5 (H) mm (adapter only)

Weight

40 grams (adapter only)

Operating Temperature

0° to 55 °C (32° to 131° F)

Storage Temperature

-20° to 75° C (-4° to 167° F)

Operating Humidity

10% to 90%, non-condensing

Storage Humidity

5% to 95%, non-condensing

Emission Certification

- FCC Class B
- CE Class B

MBTF (Mean Time Between Failure)

> 30,000 hours

Software

O.S. Support

Windows 98, 2000, ME, XP



Ordering Information

DWL-610

802.11b Wireless LAN CardBus Adapter

Please specify your order as follows:

DWL-610/NA	North America frequency
DWL-610/EU	EU frequency
DWL-610/CN	For China
TDWL-610	For Taiwan
CDWL-610	For Canada



Specifications subject to change without prior notice.
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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
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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
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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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Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
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