



Up to 54Mbps standard transmission speed, 72Mbps Turbo mode, wireless LAN for notebook PC.

5GHz High-performance Wireless LAN CardBus Adapter

The D-Link AirPro DWL-A650 is a powerful CardBus adapter for notebook PCs. This adapter connects you to a high-speed 5GHz wireless LAN, giving you fast, secured mobile access to the network. With fast 32-bit PC Card Type II interface, the DWL-A650 provides transmission speed at up to 72Mbps Turbo mode, industry standard interoperability, enhanced security and ease of use ideal for notebook PC users requiring high-speed, secure wireless network connection.

High-speed Transmission

At 54 Megabits per second, the DWL-A650 delivers high data transfer rate within the industry standard. A Turbo mode allows the adapter to operate at a significantly greater data rate of up to 72Mbps.

Industry-standard Interoperability

With both WiFi™ certification compatibility and IEEE 802.11a wireless LAN industry standard compliance, the DWL-A650 adapter provides you with excellent network interoperability.

Secure Connection

The DWL-A650 adapter uses the 5GHz spectrum, a frequency band occupied by fewer household appliances, which guarantees a lower possibility for fewer data collisions. It provides roaming capabilities from cell to cell and network to network to maximize connection efficiency.

In addition, the adapter uses 8 non-overlapping channels to create less interference, providing greater network capacity with dedicated full 54Mbps to each channel. To enhance security, the DWL-A650 employs 152-bit Wired Equivalent Privacy (WEP) and Dynamic Key Exchange to protect data from unauthorized access.

Easy Installation

With PCMCIA hot swap and plug-and-play capabilities, the DWL-A650 adapter can be easily installed into a notebook PC to provide connectivity directly to another 802.11a wireless enabled device (ad-hoc mode) or through an 802.11a Access Point (infra-structure mode). It also features an easy-to-use diagnostic utility program to help you easily identify and troubleshoot signal strength within the wireless network.

Features

- 32-bit high-performance CardBus (PC Card Type II) adapter for notebook PC
- IEEE 802.11a industry standard compliance
- 5GHz clean frequency band, OFDM spectrum modulation
- Up to 54Mbps standard data rate, 72Mbps Turbo mode data rate
- Enterprise-level security with 64, 128, 152-bit WEP data encryption
- 8 non-overlapping channels eliminate Co-Channel Interference (CCI)
- Supports Windows 98 SE, 2000, ME, XP
- Wi-Fi™ compatibility certified

DWL-A650

Technical Specifications

5GHz Wireless LAN PC Card

Standards & Hardware Specifications

LAN Standard

IEEE 802.11a wireless LAN

Adapter Type

PC Card Type II CardBus

Frequency Range

5.150 - 5.350 GHz

Data Rates

6, 9, 12, 18, 24, 36, 48, 54, 72 Mbps (Turbo)

Modulation Technology

Orthogonal Frequency Division Multiplexing (OFDM)

Modulation Techniques

- BPSK (Binary Phase Shift Keying)
- QPSK (Quadrature Phase Shift Keying)
- 16 QAM (Quadrature Amplitude Modulation)
- 64 QAM (Quadrature Amplitude Modulation)

Data Security

64, 128, 152-bit WEP (Wired Equivalent Privacy) Encryption

Media Access Control Protocol

CSMA/CA

Network Architecture

- Ad-Hoc mode (Peer-to-Peer without Access Point)
- Infra-structure mode (Communications to wired networks via Access Points with Roaming)

Antenna

Integrated diversity 3.9dBi Gain antenna

Available Channels

8 non-overlapping North America channels

Physical & Environmental

Diagnostic LEDs

- Power
- Activity

Power Consumption

- Sleep mode: < 40mW
- Transmit mode: 1650mW
- Receive mode: 1250mW

Operating Voltage

3.3V \pm 10%

Dimensions

117.86 (L) x 54 (W) x 5 (H) mm (4.64 x 2.13 x 0.2 inches)

Weight

110 grams (0.24 lb.)

Operating Temperature

0° - 60 °C (32° - 140 °F)

Storage Temperature

-20° - 85 °C (22° - 185 °F)

Humidity

5% - 95%, non-condensing

Emission Certification

- FCC Part 15b (Class B)
- Canada
- Telec
- VCCI Class B

Compatibility Certification

Wi-Fi5™

MBTF (Mean Time Between Failure)

> 30,000 hours

Software

O.S. Support

Windows 98 SE, 2000, ME, XP

Ordering Information

DWL-A650

IEEE 802.11a Wireless LAN CardBus Adapter

Please specify your model number as follows:

DWL-A650/NA

For North America frequency channels

D-Link®

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U.K.	TEL: 44-20-8731-5555	FAX: 44-20-8235-5511
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