



— DWL-120+

DWL-120+ with antenna flipped up (right),  
DWL-120+ with antenna folded down (left).

## 802.11b+ Wireless LAN USB Adapter

The DWL-120+ wireless LAN USB adapter cost-effectively connects your computer to a wireless LAN. The adapter simply plugs to a USB 1.1 port of your computer, uses the 802.11b+ standard capable of up to 22Mbps network transfer data rates, and provides data encryption of 64, 128 or 256 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.

### Adjustable Antenna

With its unique flip-up, adjustable antenna design, and the included USB cable, the DWL-120+ can be positioned virtually anywhere in a workspace to achieve the best available wireless signal reception.

### 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-120+ provides the necessary security, using the enhanced 64/128/256-bit industry-standard WEP (Wired Equivalent Privacy) encryption protocol.

### Easy Installation

With hot swap and plug-and-play capabilities, the DWL-120+ can be easily plugged to either your notebook or desktop computer to provide connectivity to another 802.11b, 802.11b+ or 802.11g wireless enabled device (ad-hoc mode) or through an Access Point (infra structure mode).

### Portable Pocket-sized

With its antenna folded up, the DWL-120+ is an attractive, portable wireless device. It can fit into your pocket or carrying case, allowing you to easily carry it around.

### Key Features

- 802.11b+ wireless LAN standard
- 2.4GHz frequency band
- USB 1.1 connection to notebook/desktop computer
- Up to 22Mbps data transfer rate
- Security with 64/128/256-bit WEP data encryption
- Supports Windows 98 SE, 2000, ME, XP
- Flip-up, foldable, adjustable antenna
- Compact pocket-sized design

# DWL-120+

## Technical Specifications

### Standard

- 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

### Frequency Range

- 2.4 ~ 2.4835 GHz

### Modulation Techniques

- Direct Sequence Spread Spectrum (DSSS)
- Packet Binary Convolution Coding (PBCC)

### Data Rates

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

### Data Rate & Modulation

- 22Mbps: PBCC
- 11Mbps: PBCC or CCK
- 5.5Mbps/1.5db: PBCC or CCK
- 2Mbps/3db: Barker

### Operating Channels

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

### Antennas Integrated Microstrip dual diversity antennas

### Receive Sensitivity

- 11Mbps: -84dBm @ 8% PER (packet error rate)
- 2Mbps: -90dBm @ 8% PER (packet error rate)

### Transmit Output Power

17dBm (typical), 2.5 flatness

### Operation Range (Open Environment)

- Indoors: Up to 100 meters (328 feet) \*
- Outdoors: Up to 300 meters (984 feet) \*

\* Environmental factors may adversely affect operation range

### Key Management

Automatic Dynamic Key Allocation (ADKA) through public key

### Data Security

64/128/256-bit WEP (Wired Equivalent Privacy) encryption

## Physical & Environmental

### Diagnostic LEDs

- Power
- Link/Activity

### Operating Voltage

5V DC +/- 10%

### Power Consumption

- Transmission: 450mA max.
- Reception: 300mA max.
- Sleep mode: 80mA max.

### Power Input

USB bus power, no external AC power adapter required

### Dimensions

85 (L) x 55 (W) x 14 (H) mm (3.3 x 2.2 x 0.5 inches)

### Weight

544 grams (1.2 lb.)

## 2.4GHz Wireless LAN

### 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 15b (Class B)
- CE Class B
- C-Tick

### Software

#### O.S. Support

Windows 98 SE, 2000, ME, XP

### Package Includes

- DWL-120+ USB adapter
- 2-meter USB 1.1 A-to-B cable
- Software driver CD
- Quick Installation Guide



ACN 052 202 838

## Ordering Information

### DWL-120+

802.11b+ Wireless LAN USB 1.1 Adapter

Please specify your order as follows:

<b>DWL-120+/NA</b>	North America frequency
<b>DWL-120+/EU</b>	EU frequency
<b>DWL-120+/CN</b>	For use in China (China packaging)
<b>TDWL-120+</b>	For use in Taiwan (Taiwan packaging)
<b>CDWL-120+</b>	For use in Canada (Canada packaging)
<b>BDWL-120+</b>	For use in USA (USA packaging)

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<b>Brasil</b>	TEL: 55-11-3094-2910	FAX: 55-11-3094-2921
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<b>Taiwan</b>	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
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