# D-Link Quick Installation Guide

# DUB-E100

**USB 2.0 Fast Ethernet Adapter**

## Check Your Package Contents

**DUB-E100 USB 2.0 Fast Ethernet Adapter**


**CD-ROM (Software, Manual and Warranty)**

If any of the above items are missing, please contact your reseller.

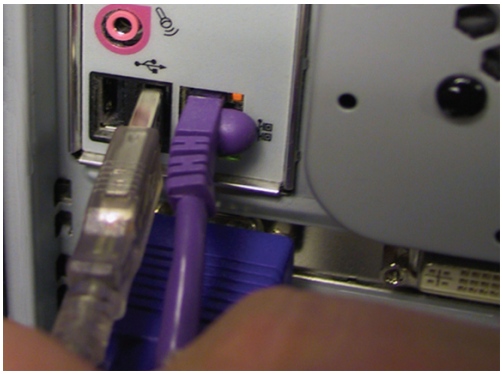
**The DUB-E100 supports drivers for the following operating systems:**

| | |
|---|---|
| Microsoft Windows Vista (x86 ,x64) | Linux (kernel 2.6.9~13) |
| Microsoft Windows XP (x32/x64 Edition) | Linux (kernel 2.6.14 & above) |
| Microsoft Windows Server 2003 (x32/x64 Edition) | Mac OS (10.x) |
| Microsoft Windows 2000 | Windows 98SE/ME |

# 1 Connecting the DUB-E100 to Your Computer

Plug the DUB-E100's USB cable into an available USB port on your computer.

*Windows will detect new hardware and prompt you for the drivers. Follow the steps below and then proceed to the Driver Installation section on the following pages.*



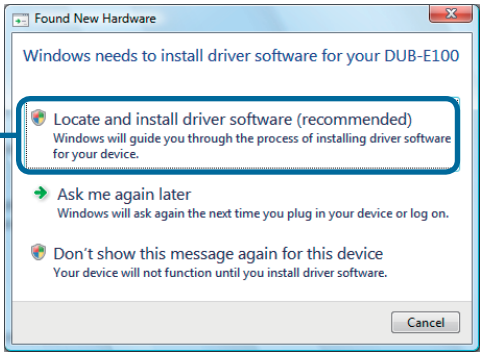
Attach an Ethernet cable to the Ethernet port on the DUB-E100.


Attach the other end of the Ethernet cable to your network switch, hub, or router.

# 2 Installing the Drivers

## Windows Vista x64/86

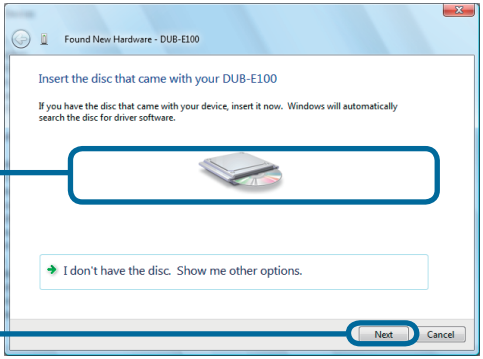
Select **Locate and install driver software (recommended)**



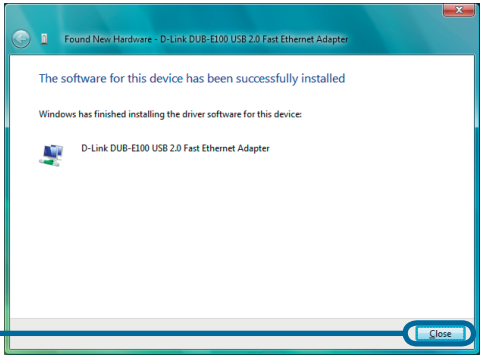

Make sure the provided CD-ROM is placed in your disc drive.

If your computer is connected to the Internet, please disconnect the connection temporarily to prevent the wizard searching for drivers via Windows Update feature.

Click **Next**




Click **Close**



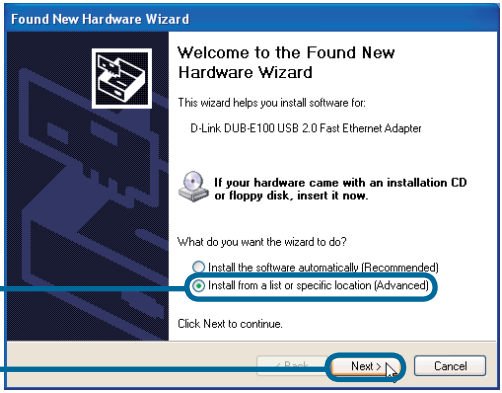

Windows Vista driver installation is complete. Now you may connect the DUB-E100 to a network using an Ethernet cable.

# 2 Installing the Drivers

## Windows XP

Select **Install from a list or specific location (Advanced)**

Click **Next**

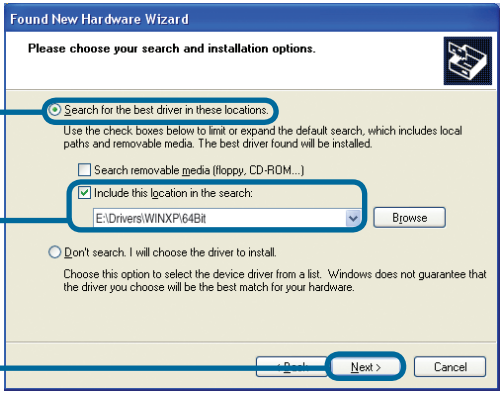



## For Windows XP 64 Edition

Select **Search for the best driver in these locations.**

Select **Include this location in the search:** and then click **Browse** to navigate to **x:\Drivers\Win XP\64Bit** (where x:represents your CD-ROM drive letter).

Click **Next**

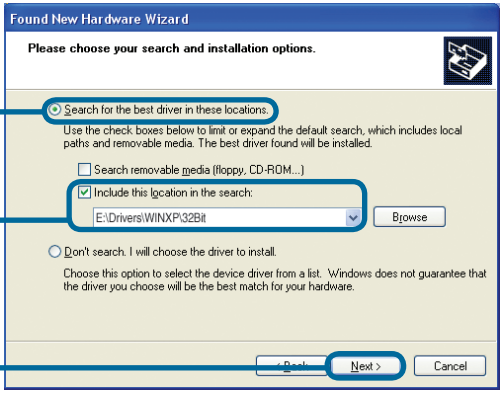



## For Windows XP 32 Edition

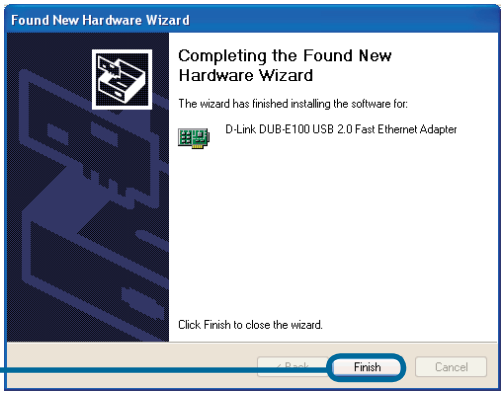
Select **Search for the best driver in these locations.**

Select **Include this location in the search:** and then click **Browse** to navigate to **x:\Drivers\Win XP\32Bit** (where x:represents your CD-ROM drive letter).

Click **Next**



# 2 Installing the Drivers (continued)



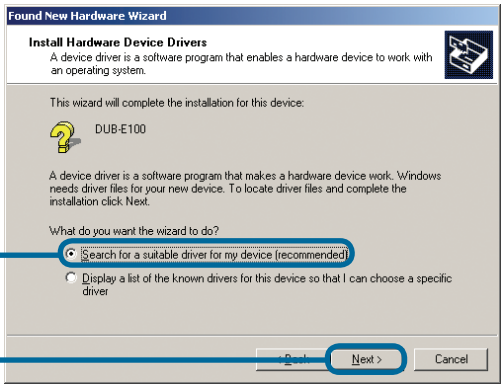

Click Finish

Windows XP driver installation is complete. Now you may connect the DUB-E100 to a network using an Ethernet cable.

# 2 Installing the Drivers (continued)

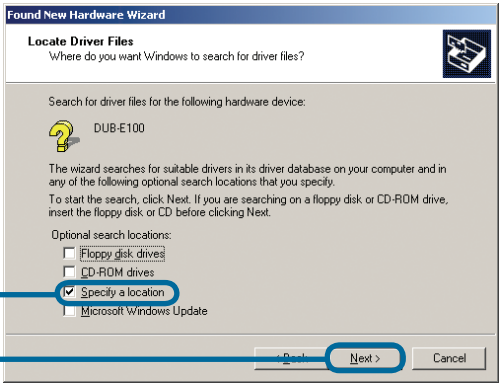
## Windows 2000


Click Next




Select Search for a suitable driver for my device (recommended)

Click Next

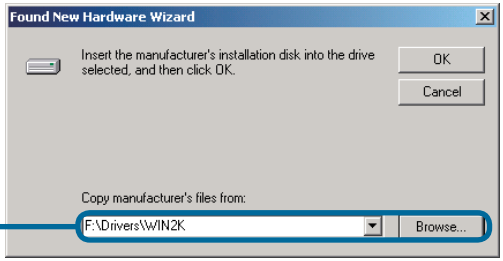



Select Specify a location

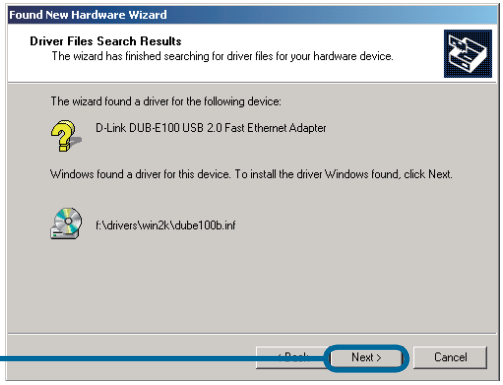
Click Next

# 2 Installing the Drivers (continued)

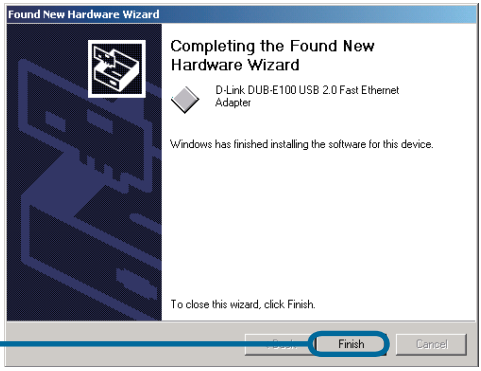
Click **Browse** and navigate to **x:\Drivers\Win2K** (where x: represents your CD-ROM drive letter).




Click **Next**




Click **Finish**



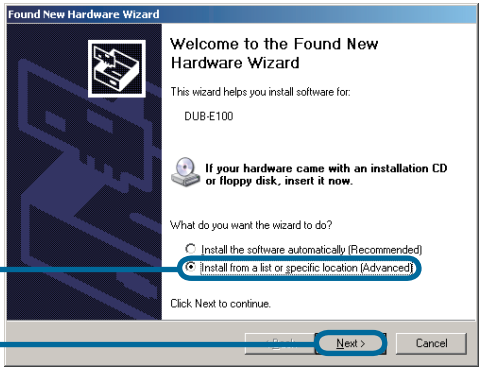

Windows 2000 driver installation is complete. Now you may connect the DUB-E100 to a network using an Ethernet cable.

# 2 Installing the Drivers (continued)

## Windows 2003

Select **Install from a list or specific location (Advanced)**

Click **Next**

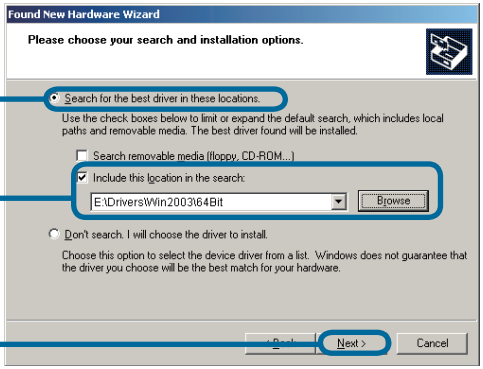



## For Windows Server 2003 x64 Edition

Select **Search for the best driver in these locations**

Select **Include this location in the search:** and then click **Browse** to navigate to **x:\Drivers\Win2003\64BIT** (where x: represents your CD-ROM drive letter).

Click **Next**

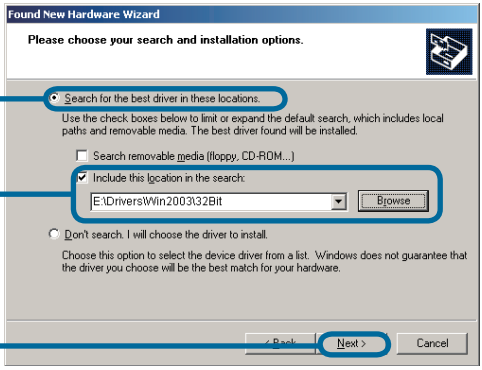



## For Windows Server 2003 x32 Edition

Select **Search for the best driver in these locations**

Select **Include this location in the search:** and then click **Browse** to navigate to **x:\Drivers\Win2003\32BIT** (where x: represents your CD-ROM drive letter).

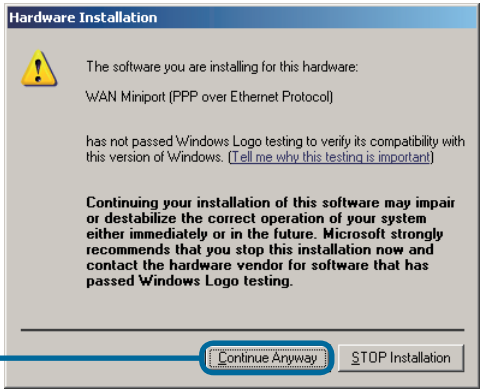
Click **Next**



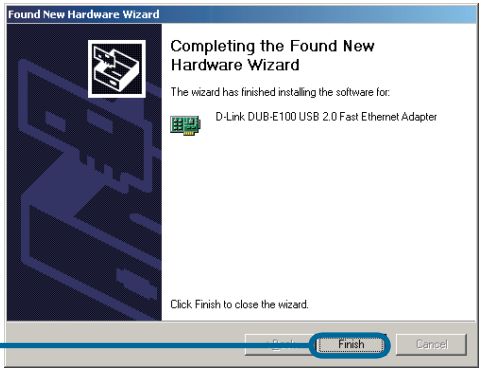
# 2 Installing the Drivers (continued)

Click **Continue Anyway**


Click **Continue Anyway**



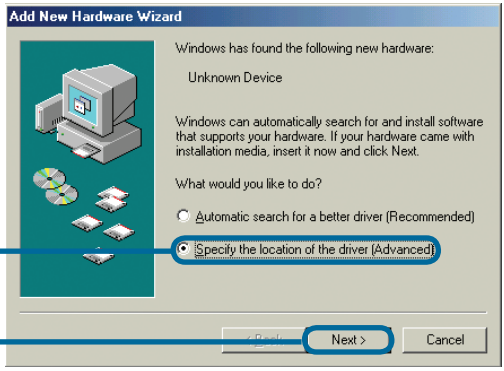

Click **Finish**




Windows Server 2003 driver installation is complete. Now you may connect the DUB-E100 to a network using an Ethernet cable.

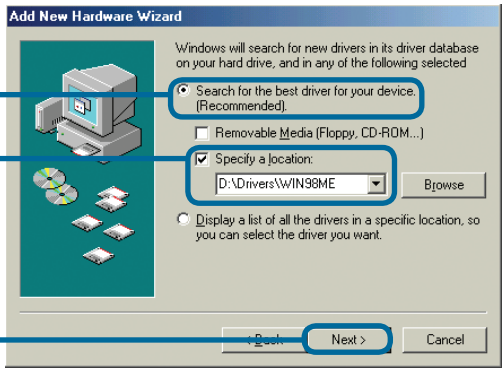
# 2 Installing the Drivers (continued)

## Windows Me




**Select Specify the location of the driver (Advanced)**

**Click Next**



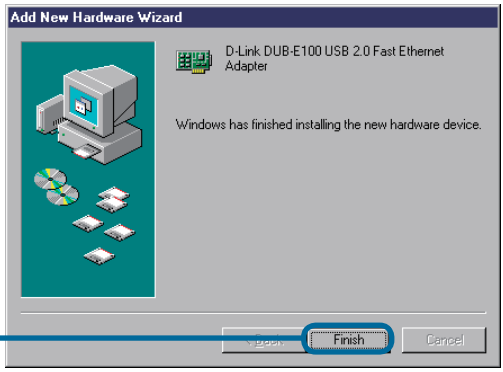

**Select Search for the best driver for your device (Recommended)**

**Select Specify a location:** and **type D:\Drivers\Win98ME** (where D: represents your CD-ROM drive letter).

**Click Next**


**Click Next**

# 2 Installing the Drivers (continued)




**Click Finish**

Windows Me driver installation is complete. Now you may connect the DUB-E100 to a network using an Ethernet cable.

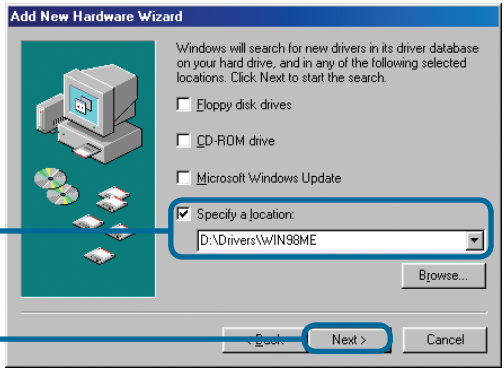
# 2 Installing the Drivers (continued)

## Windows 98SE


**Click Next**


**Select Search for the best driver for your device (Recommended)**

**Click Next**



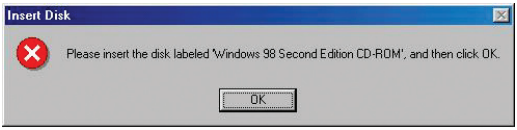

**Select Specify a location: and type D:\Drivers\Win98ME (where D: represents your CD-ROM drive letter).**

**Click Next**

# 2 Installing the Drivers (continued)


Click Next

Windows begins copying the necessary files onto your computer. You may be prompted to provide the original Windows 98SE CD-ROM. If so, insert the CD-ROM and click OK. If necessary, provide the path to the CD-ROM, such as **D:\WIN98** (where **D:** is your CD-ROM drive letter).





Click Finish

If prompted, restart your computer to complete the installation.
Windows 98 driver installation is complete.

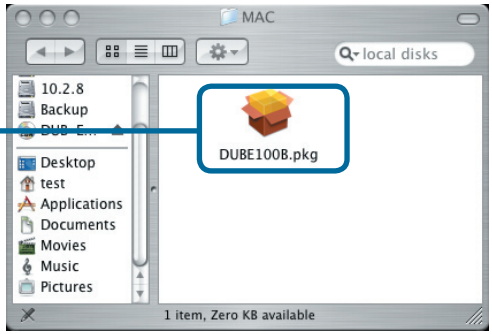
# 2 Installing the Drivers (continued)

## Mac OS X Users

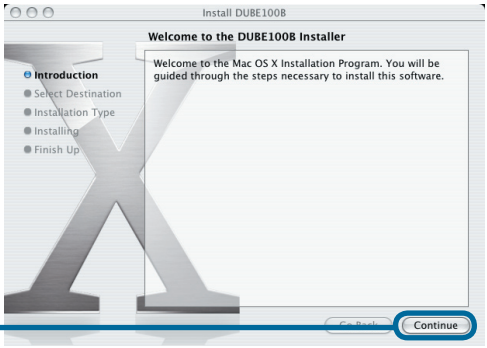
The following screen shots were taken from Mac OS 10.3 but the steps are similar in other versions of OS X. Your operating system must be version 10.1 or above.

**Double click** the CD-ROM icon on the desktop and navigate to **\Drivers\MAC**.


**Double-click DUBE100B.pkg**

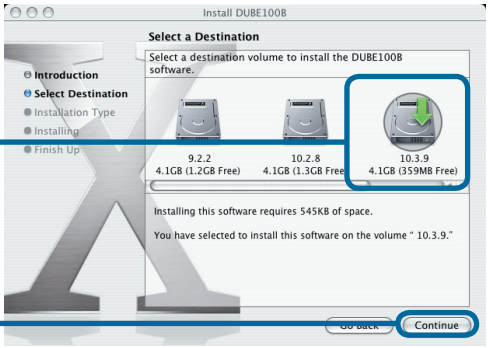



**Click Continue**

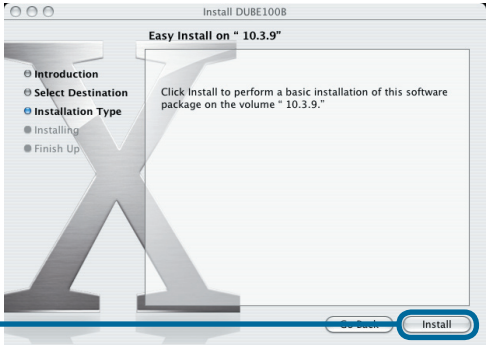


# 2 Installing the Drivers (continued)

Select a **Destination Volume**

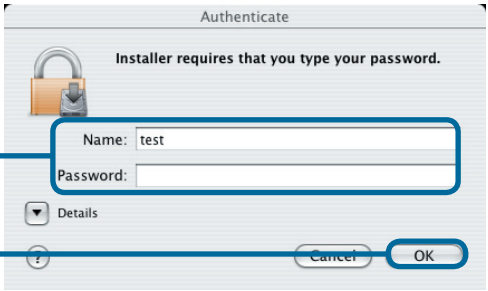



**Click Continue**



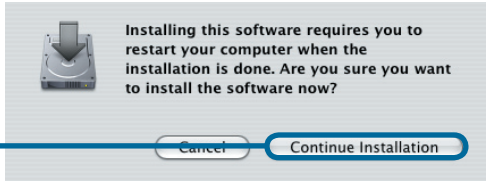

**Click Install**

Enter the name and password of a user with administrative rights.

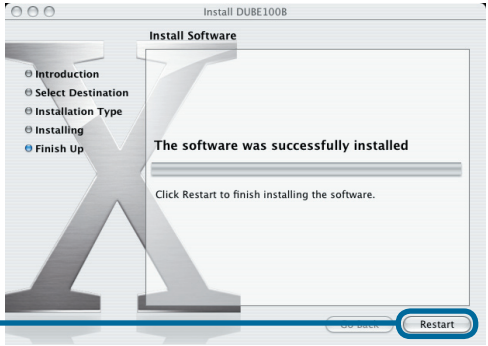



**Click OK**

# 2 Installing the Drivers (continued)



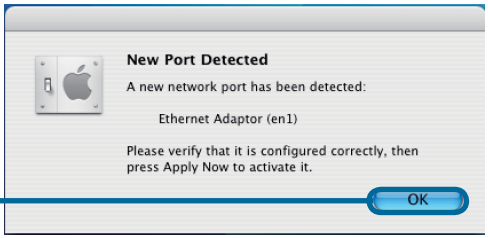

Click **Continue Installation**




Click **Restart**

After the restart, plug the DUB-E100's USB cable into an available USB port on your computer. Then attach one end of an Ethernet cable to the Ethernet port on the DUB-E100 and the other end to your netwrok switch, hub or router.

Mac system will detect the new hardware and show the name of the adapter, e.g. Ethernet Adapter (en1) in the example below .




Click **OK**

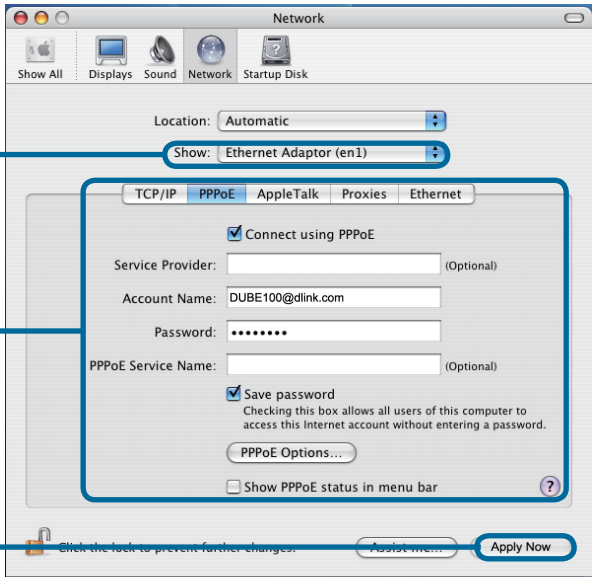
# 2 Installing the Drivers (continued)

To configure the network settings of DUB-E100, click the Apple icon and select **System Preferences**. Then double-click the **Network** icon.

Select the adapter representing DUB-E100.

Configure the network settings as required by your network.

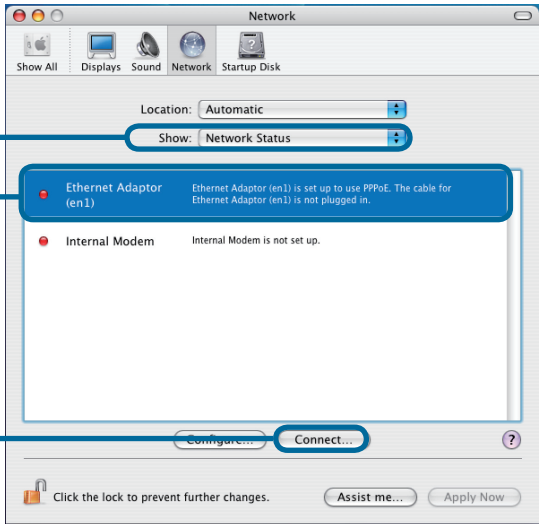
Click **Apply Now**




Select **Network Status**

Select the adapter representing DUB-E100.

Click **Connect**



# 2 Installing the Drivers (continued)

## Linux 2.6.14

This driver is designed for Kernel 2.6.14.x or above. To compile the provided Linux driver, you need the Linux 2.6 Kernel source. Also, please make sure the kernel is built with "Support for Host-side, EHCI, OHCI, and UHCI" option.

1. Insert the driver CD-ROM into the CD-ROM drive of your computer and go to the **Drivers\Linux** directory.

2. Copy the **LINUX2.6.14_REV101** folder to your temporary directory.

3. Go to the **LINUX2.6.14_REV101** folder and execute the following command to

compile the driver.

[root@localhost linux2.6.14_rev101]# make

4. If compiling without errors, **asix.ko** will be created under the current directory.

5. If you want to use modprobe command to mount the driver, execute the following command to install the driver on your Linux.

[root@localhost linux2.6.14_rev101]# make install

To mount the driver , go to the **LINUX2.6.14_REV101** directory and execute the following command:

[root@localhost linux2.6.14_rev101]# insmod usbnet

[root@localhost linux2.6.14_rev101]# insmod asix.ko

or

[root@localhost anywhere]# modprobe asix

To unmount the driver, just type the following command:

[root@localhost anywhere]# rmmod asix

[root@localhost anywhere]# rmmod usbnet

## Linux 2.6.9

This driver is designed for Kernel 2.6.x to 2.6.13. To compile the provided Linux driver, you need the Linux 2.6 Kernel source. Also, please make sure the kernel is built with “Support for Host-side, EHCI, OHCI, and UHCI” option.

1. Insert the driver CD-ROM into the CD-ROM drive of your computer and go to the **Drivers\Linux** directory.

2. Copy the **LINUX2.6.9_REV111** folder to your temporary directory.

3. Go to the **LINUX2.6.9_REV111** folder and execute the following command to

compile the driver.

[root@localhost linux2.6.9_rev111]# make

4. If compiling without errors, **usbnet.ko** will be created under the current directory.

5. If you want to use modprobe command to mount the driver, execute the following command to install the driver on your Linux.

[root@localhost linux2.6.9_rev111]# make install

To mount the driver , go to the **LINUX2.6.9_REV111** directory and execute the following command:

[root@localhost linux2.6.9_rev111]# insmod usbnet

or

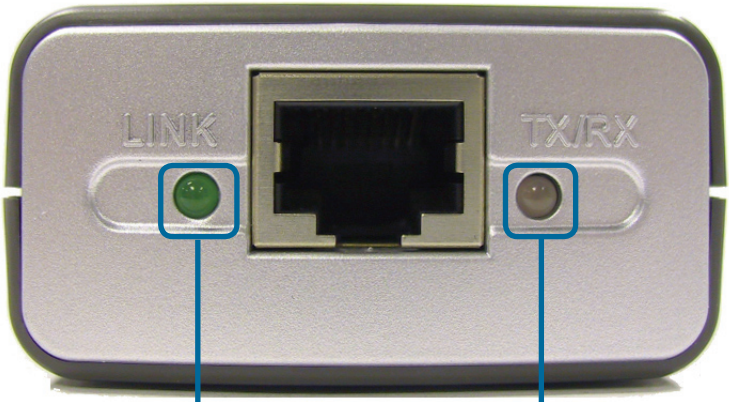
[root@localhost anywhere]# modprobe usbnet

To unmount the driver, just type the following command:

[root@localhost anywhere]# rmmod usbnet

# 3 Installation is Complete!

Installation of the DUB-E100 is complete. The LINK LED should be solid green, indicating a good physical connection between the DUB-E100 and the network. The TX/RX LED indicates when data is being transmitted or received. If both LEDs are unlit, there may be a problem with the physical connection. Check the cables between your DUB-E100, the computer, and the network. Verify that your network switch, hub, or router is powered on.




**LINK LED:**
Lights up solid green when the DUB-E100 has a good physical connection to the network.

**TX/RX LED:**
Flashes green when data is transmitted/received at 100Mbps. When data is transmitted/received at 10Mbps the LED flashes amber.

# 4 Frequently Asked Questions

### 1. Can I use my DUB-E100 on a USB 1.1 port?

The DUB-E100 will work on a USB 1.1 port but the transfer speeds will be limited to the limitations of USB 1.1. If your computer does not have USB 2.0 ports, you can purchase an add-in USB 2.0 PCI adapter to add USB 2.0 functionality to your computer.

D-Link® offers the following USB 2.0 adapters:

- **DU-520** (5 Port USB 2.0 PCI Adapter) for desktop computers.
- **DUB-A2** (2-Port USB 2.0 PCI Adapter) for desktop computers.
- **DUB-C2** (2-Port USB 2.0 Cardbus Adapter) for laptops computers.

### 2. Do I need to use a crossover cable or straight-through cable?

With most of D-Link's new switches/routers, the Ethernet ports are Auto MDI-II/MDI-X. This means the port will auto-sense the cable type. Auto MDI-II/MDI-X ports may react differently if the Ethernet cable is not properly pinned. If you make your own cables, it is very important that they follow the industry standard pin-out (568A and 568B).

Computer connections to a hub, switch, or router typically use a straight-through cable. When connecting a computer to another computer or to an uplink port then a cross-over cable is typically required. Rule of Thumb: "If there is a link light, the cable is right."

### 3. How do I verify that my DUB-E100 is properly installed?

**Windows**

You can verify that the adapter has been properly installed in Device Manager:

- Right click on the My Computer icon and select Properties.
- For Windows 98SE and ME: Go to the Device Manager tab.
- For Windows XP, 2000, and Server 2003: Go to the Hardware tab and click on the Device Manager button
- For Windows Vista: Click on the Device Manager item under the Tasks group.
- Expand the Network Adapters heading by clicking on the plus (+) sign next to Network Adapters.
- Right click on the My Computer icon and select Properties.
- The D-Link USB DUB-E100 should appear with a green and gold network adapter symbol.

If the D-Link USB DUB-E100 in device manager appears with a bright yellow exclamation mark or a red x, please contact D-Link Technical Support.

**Mac OS**

1. Click the Apple icon on the task bar, select System Preferences and then click the Network icon.

2. You will find that a new Ethernet network interface is available. It's usually named Ethernet Adapter (en1) or Ethernet Adapter (en2).

**Linux 2.6.x**

To verify if the DUB-E100 driver is properly installed:

1. Load the DUB-E100 module by the following command:

[root@localhost linux2.6.14_rev101]# modprobe asix

2. List the loaded modules with the specified pattern “asix”:

[root@localhost linux2.6.14_rev101]# lsmod | grep asix

**Then you should get the reply similar to the following lines:**

asix 26880 0

usbnet 20616 1 asix

mii 9600 2 asix,e100

usbcore 114896 5 asix,usbnet,usb_storage,echi_hcd,uhci_hcd

If you still have problem on installing the D-Link USB DUB-E100 driver, please contact D-Link Technical Support.

# Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

U.S. and Canadian customers can contact D-Link Technical Support through our website, or by phone.

## Tech Support for customers within the United States:

***D-Link Technical Support over the Telephone:***
(877) 453-5465
24 hours a day, seven days a week.
***D-Link Technical Support over the Internet:***
http://support.dlink.com
email:support@dlink.com

## For Customers within Canada:

***D-Link Canada Technical Support over the Telephone:***
1-800-361-5265 (Canada)
Monday to Friday 7:30 am to 3:00 am ET
Saturday and Sunday 9:00am to 12:00am ET
***D-Link Canada Technical Support over the Internet:***
http://support.dlink.ca
email: support@dlink.ca

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Building Networks for People

Ver.3.40(B)
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