

***USB to 10/100 Mbps Ethernet,
1Mbps HomePNA Adapter***

User's Guide

FCC Certifications



This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE Mark Warning



This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class B for ITE, the essential protection requirement of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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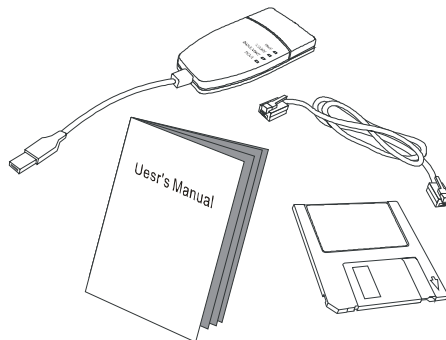
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1. Unpacking Information

Thank you for purchasing the USB to 1/10/100Mbps Ethernet and Home networking adapter. Before you start, please check all the contents of this package.

The product package should include the following:

1. One USB to 1/10/100Mbps Fast Ethernet and 1M Homenet Adapter
2. One telephone line
3. One driver diskette
4. User's guide



2. Introduction of USB to 1/10/100Mbps Adapter

2.1 General Description

The USB to 10/100Mbps Fast Ethernet, 1Mbps Homenet Adapter allows your phone line to carry computer data along with your regular Telephone voice service. The USB adapter is equipped with two standard telephone ports and one 10/100Mbps dual-speed Fast Ethernet port. You can connect to 1Mbps HomePNA network, 10Mbps Ethernet or 100Mbps Fast Ethernet network without swapping devices or running multiple adapters.

The 1Mbps home networking is a new technology that provides the network connections through the most widespread telephone wires with no impact on current voice communication. Therefore, users do not need to rewire the network cables and share the network resources at home. Home networking technology becomes more and more important especially the multi-PC home environment is booming.

The USB adapter connects to your computer's USB port with Windows 98/ME or Windows 2000/XP running. The device is easy to configure and also fully compliant with all kinds of network protocols. Moreover, the rich diagnostic LEDs on the front-panel provides the operating status of individual port and the whole system.

For network connection:

The adapter use the following cabling:

- 10BASE-T, Category 3, 4 or 5 UTP
- 100BASE-TX, Category 5 UTP
- 1Mbps HomePNA v1.0/1.1, Twisted-pair telephone wires

2.2 Key Features

- Complies with 1Mbps HomePNA specification 1.0/1.1
- Complies with 10BASE-T/100BASE-TX specifications of the IEEE802.3/IEEE802.3u standard
- Two RJ-11 bypass connectors for home networking port
- Supports one 1Mbps home networking ports
- Supports one Auto Sensing 10/100Mbps Ethernet port
- Supports extensive LED indicators for network diagnostics
- HomePNA port could allow 25 nodes devices together on your home phone network
- FCC Class B, CE

2.3 System LEDs

2.3.1 SPEED LED

100Mbps Ethernet – Green On
10 Mbps Ethernet – Green Off

2.3.2 LINK/ACT LED

LINK – Green On
ACT – Green Blinking (for 10/100Mbps only)

2.3.3 FDX/COL LED

Full Duplex – Green On
Collision – Blinking Green

2.3.4 HPNA LED

HPNA Link – Green On
HPNA No Link – Green Off

If the port is connected but the Link/Activity LED is dark, check the following items:

1. The switching hub and the connected device's power are on or not
2. The port's cable is firmly seated in its connectors in the switching hub and in the associated device.
3. The connected cable is good and has correct type
4. The connecting device, including any network adapter is functioning.

2.4 The Rear Panel

The rear panel of the adapter is shown below



Each 1Mbps home networking port has:

1. Two RJ-11 bypass connectors with no order issue for in and out.
2. One connector for the 10/100Mbps Fast Ethernet port.

3.Installing And Using the USB Adapter

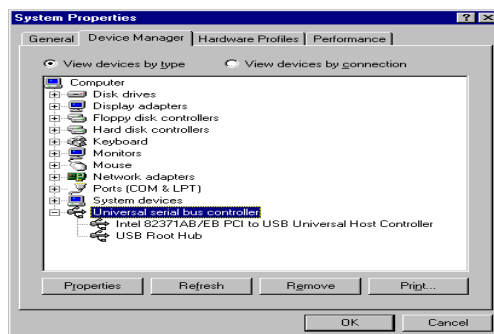
3.1 System Requirements

- A Pentium processor-based personal computer 166MMX or above
- One USB port well installed and enabled
- Microsoft Windows 98/MEand Windows 2000/XP

3.2 Hardware Installation

3.2.1 Precaution

Before installation, make sure the USB port exists in your computer and is enabled. To check this, go to **My Computer** → **Control Panel** → **System**. Open the **Device Manager** tab. Make sure the USB port is installed and enabled in your computer like the **Universal Serial Bus controller** device found as below.



3.2.2 Getting Hooked Up

1. Locate the USB host port of your system. Align the USB A-Type connector toward the USB host port. Push evenly and steadily until it is seated.

3.2.3 Installing Ethernet Cabling

1. Connect the UTP Ethernet cable to the network port of the USB Adapter.
2. Plug the other end of the cable into a 10BaseT or 10/100 Switch or Hub.

3.2.4 Installing Telephone Cabling

1. Attach one end of the telephone wire to the USB Adapter's RJ-11 telephone port. Connect the other end of the cable into a telephone jack in your wall.

The USB Adapter is now connected to your PC. Perform the following procedures to install the Telephone cabling or Ethernet cabling.

REMARK: If you choose to use the RJ-45 port on your USB Adapter, the RJ-11 Phoneline networking capabilities will be disabled automatically. The two ports cannot operate at the same time.

3.3 Software Installation

Windows 98/ME Setup

1. Once the USB Adapter is connected to your computer, Windows 98/ME will automatically detect the new hardware device as shown below. Click **Next**.



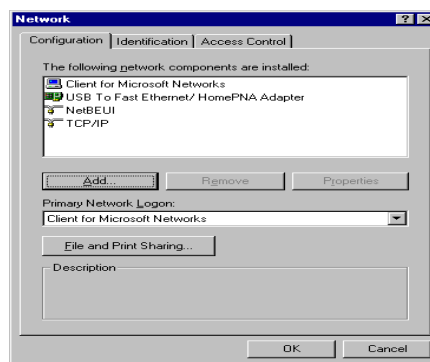
2. Insert the driver diskette into your floppy drive. When Windows prompts you **What do you want Windows to do?** Select Search for the best driver for you device. (Recommended). Click **Next**.
3. Follow the on-screen instruction to proceed.

4. Windows will finish copying all the necessary files to your system. When the following window appears, click **Finish**.

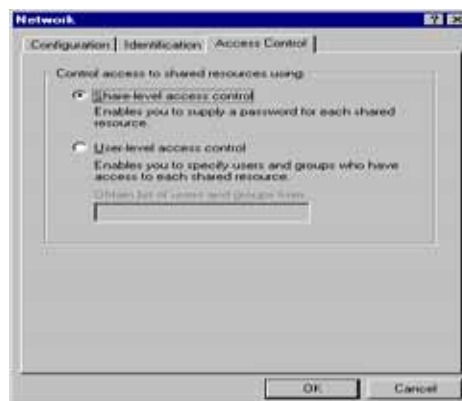


5. When asked if you want to restart your computer, Click **No**.
6. Once you are back at the Windows 98/ME desktop, click the **Start** button. Click **Settings**, then **Control Panel**.
7. Double-click the **Network** icon. The Network window will appear. Click the **Configuration** tab.
8. Make sure that the following network components are installed:

Client for Microsoft Networks
USB To Fast Ethernet/HomePNA Adapter
NetBEUI
TCP/IP



9. If you are missing required components, you'll need to install them manually. If you need to install the TCP/IP Protocol, contact your system administrator or refer to the Windows documentation.
10. In the **Primary Network Logon** box, select **Client for Microsoft Networks**.
11. Click the **Identification** tab. Enter the required information appropriately.
12. Click the **Access Control** tab. Make sure that **Shared-level access control** is selected.



13. When finished, remember to restart your computer to activate the new device.

Once the computer has been restarted and Windows 98/ME has booted up. And a **Logon** window will appear requiring you to enter a username and password. Make up a username and password, enter them, and click **OK**.

When you are at the Windows desktop, double-click the **Network Neighborhood** icon. You should see the name of the network, and/or the names of the other PCs on the network.

Windows 2000 Setup

1. Once the USB adapter is connected to the computer, the **USB To Ethernet/ Long Distance Phone Line Adapter** will be found and the system will assign the default network driver to the adapter.
2. Select "Control Panel" from "Start" menu bar
3. Select "Network and Dial-Up Connection" folder then click "Local Area Connection" and "Properties".
4. Click "Configure" item and select "Driver"
5. From the "Driver" item then choose "Update Driver"
6. The system will prompt two optional for driver search, one is auto search and the other is "Display a list of known drivers". Please select second one "Display ...".
7. The system will prompt for driver installation and please select "Have Disk" button.
8. Key in "a:\\" path to install driver for the adapter

Windows XP Setup

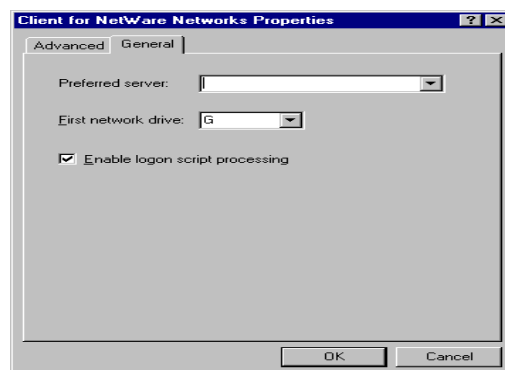
1. Once the USB adapter is connected to the computer, the USB To Ethernet/ Long Distance Phone Line Adapter will be found and the system will assign the default network driver to the adapter.
2. Select "Control Panel" from "Start" menu bar
3. Select "Network Connection" folder then click "Local Area Connection" and "Properties".
4. Click "Configure" item and select "Driver"
5. From the "Driver" item then choose "Update Driver"
6. The system will prompt two optional for driver search, one is auto search and the other is "Display a list of known drivers". Please select second one "Display ...".
7. Choose "Install from a list or specific location (Advanced)" and click "Next".
8. Select "Don't search, I will choose the driver to install" then click "Next".
9. The system will prompt for driver installation and please select "Have Disk" button.
10. Key in a:\ path to install driver for the adapter

Client Setup

If you are not using Windows with an NT or Netware file server, skip the next two paragraphs. Perform the following procedures to prepare your computer to be used with any file servers that may be on the network.

Connecting to a Netware File Server

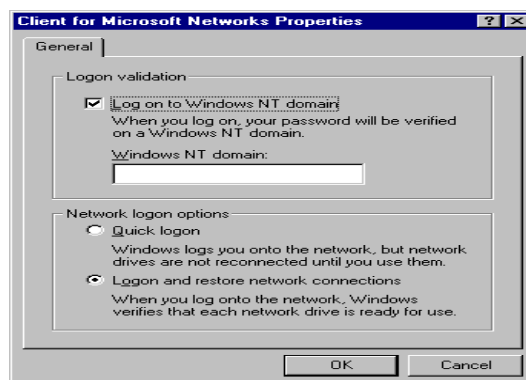
1. Click **My Computer**, **Control Panel**, and **Network**.
2. Change the **Network Logon** to **Client for Netware Network**.
3. Double-click the **Client for Netware networks**. Put your server's name in the Preferred Server box. Click in the **Enable Logon Script Processing** box.



4. Click **OK** and restart your PC.

Connecting to a Windows NT Domain

1. Click **My Computer**, **Control Panel**, and **Network**.
2. Change the **Primary Network Logon** to **Client for Microsoft Network**.
3. Double-click the **Client for Microsoft networks**.
4. Select the **Log on to Windows NT domain** box. Put your NT domain name in Windows NT domain area.



5. Click **OK** and restart your PC.

4. Product Specifications

Standard	IEEE802.3, 10BASE-T IEEE802.3u, 100BASE-TX HomePNA specification 1.0/1.1 USB v1.1
Interface	1* 1Mbps HomeNet ports by two bypass RJ-11 connectors 1* 10Base-T / 100Base-TX Fast Ethernet Port
Cable Connections	RJ-45 (10BASE-T) : UTP Category 3,4,5 1Mbps HomeNet : Twisted-pair telephone wires
Network Data Rate	100Mbps, 10Mbps, 1Mbps
LED indications	Port LED : Ethernet Speed (SPD) x 1 Ethernet Link/Activity x1 Ethernet FDX/COL x 1 HPNA x 1
Emission	FCC Class B, CE
Operating Temperature	0° ~ 40°C (32° ~ 104°F)
Operating Humidity	10% - 90%
Operation systems	Windows 98/ME/ 2000/XP/NT