Usage Guide of Legend Network Adapter

(Intel Pro100S V1.0)

Catalogue

Intel Pro100S is a high-performance 32-bit PCI Ethernet adapter featuring plug and play and easy installation. This product is made strictly in line with the regulations of PCI REV2.2, supporting half/full duplex, adopting automatic adjustment technology to test and monitor the web speed and transmission mode and its driver can support different OS like Netware, Windows9X, Windows NT, etc.

Features and functions

- 32bit PCI port and low CPU occupancy;

- made by IEEE 802.3 CSMA/CD and attains the criteria of 100Base-TX and 10Base-T;

- Full duplex design, doubling its performance to 20/200Mbps (requiring a HUB to switch and support full duplex);

- Support 10/100 Mbps auto control;

- Support PCI REV2.2 and automatically allocate IRQ and I/O address;

- Support web-alarming function;

- Has standard RJ-45 port and can use 5-type UTP (100Base-TX) or 3, 4, 5-type UTP (10Base-T);

- Support remote vectoring;

- Possess auto-adjusting function and can monitor web speed;

- Display web status by LED — 100TX: Green, 100Mbps OK;
                                      Yellow, 10Mbps OK;
                               — ACT: Red, Tx/Rx effictive;
                                      Glittering: Info transferring;

- support ACPI and PCI power management with low consumption and fit for green PC system.

Hardware installation

The installation of network adapter is as follows:

shut down the computer (should completely switch off ATX) and open the housing;

plug the adapter into PCI slot;

screw up the adapter and close up the housing;

connect the adapter with the web wire.

⚠ Notices: Static electricity may cause damages to electric appliances. Please take precautions beforehand:

- Please discharge static electricity on your body before touching any electric appliances. You can discharge is by touching the metal without plugs inside the computer.

- Before getting prepared for installation, please do not take the adapter out of the anti-static electricity container; when plug out the adapter from the computer, please put it back to the original container;

- Do not let your clothes touch any of the electronic devices;

- When you want to discard this adapter, please hold its edge and do not touch the parts on top of it.

Driver Installation

1. Making a Floppy Disk

If you need to use a floppy disk to install the adapter drivers:

- You can use the MAKEDISK.BAT utility located in the "X:

\LX_NET\Intel\MAKEDISK" directory on this CD.("X" refers to the assumed CD mark of your computer).

Usage is as follows:

MAKEDISK [operating system] [destination]

where [operating system] is the OS for which you are creating the diskette, and [destination] is the drive letter and path (such as A:). If no destination is specified, the A: drive will be used.

The possible [operating system] options are:

NT = Microsoft Windows NT

W2K = Microsoft Windows* 2000

W9X = Microsoft Windows* 95 and Windows 98 and Windows* ME

NW = Novell NetWare servers and clients

DOS = Microsoft DOS and IBM OS2

MODEM = Modem drivers for the PRO/100 Mobile Combo adapters for all Microsoft operating systems.

Make sure you have a 1.44 MB formatted, non-bootable diskette in the floppy drive when using this utility.

NOTE: Due to size limitations, PROSet and other advanced features cannot be installed from the floppy disk.

NOTE: This utility MUST be run from the \MAKEDISK directory.

For Windows 9x, Me and 2000 the created floppy will contain only the base drivers and NOT the advanced networking features installations. These may be installed from the Legend Driver CD or over the network once the base connection has been established.

Example:

MAKEDISK NT A: <Enter>

2. Windows* XP

1. After you put the adapter in the computer and connect the cable, start Windows XP.

Windows XP automatically assigns a driver to the adapter. However, to install the latest driver you should perform the rest of these steps.

2. Open Device Manager. To do so, right-click on My Computer (this icon may either reside on your desktop, or be listed in the Start menu), click Properties, click the Hardware tab, and then click Device Manager.

3. Double-click Network Adapters in the list area to expand the listing.

4. Double-click the Intel(r) adapter.

5. Click on the Driver tab.

6. Click on the Update Driver button. The Hardware Update Wizard appears.

7. Insert the Legend Drivers CD into the CD drive. (If an autorun screen should automatically appear, you can close it.)

8. Designate the installation route as "X:\LX_NET\Intel" directory on this CD ("X" refers to the assumed CD mark of your computer).

9. Follow any on-screen prompts as they appear. In the course of it,the system may say that certain loaded file is not available.In this case,you have to re-designate the route of "copy file"(same as above" X:\LX_NET\Intel")until the end of Installation.

3. Windows* 2000

⚠ NOTE: If Windows 2000 is enabled for IPSec encryption,the PRO/100 S adapter automatically offloads the intensive encryption and authentication functions onto the IPSec co-processor on the adapter. (The PRO/100 S adapter driver registers with the oper ating system to automatically enable this function.) The result is an increase in throughput and a decrease in CPU utilization.

⚠ NOTE: In order to enable 3DES encryption in Windows 2000, you must install the Windows 2000 High Encryption Pack. (By default, Windows 2000 ships with DES support only). This pack is available at the Microsoft download page.

- Double authentication-based security associations will not be offloaded.

- If you are using an Intel PRO/100 S adapter, note that Windows 2000 doesn't offload **fragmented** IP traffic to the adapter.

- Tunnel mode processing is off-loaded to the encryption co-processor but is not supported by Intel Packet Protect.

Install Network Drivers from CD

After you install the PRO/100 adapter in the computer, connect the cable, plug in the power cord and start the computer, Windows displays the Found New Hardware dialog box and starts the Found New Hardware Wizard.

Using the Wizard, follow this procedure to install the correct driver.

- Put the cover back on the computer and turn on the power.

- Insert the Legend Driver CD in the CD-ROM drive. If the CD autorun program starts, close this window at this time.

1. From the Control Panel, double-click the System icon, select the Hardware tab, and click the Device Manager button.

2. Expand the "Network Adapters" listing by clicking the plus sign in front of it. Highlight the Intel(R) PRO/100 S adapter listing, right-click to display its menu, and select Properties.

3. From the Properties dialog box, click the Driver tab and click the Update Driver button. The Update Device Driver Wizard appears. Click Next.

4. At the prompt "What do you want the wizard to do?", select the "Search for a suitable driver for my device" radio button, and click Next.

5. Select the appropriate box where your updated driver is located and click Next. For example, the installation route as "X:\LX_NET\Intel" directory

on this CD ("X" refers to the assumed CD mark of your computer)

6. Select the "Install one of the other drivers" check box and click Next.

7. Select the driver you downloaded. Click Finish.

8. Restart your computer if prompted.

4. Windows 95/98

1. click right "My computer" on the desktop and select "property";

2. under the window of "system property", select "equipment manager" and then click "renew"; the system will prompt "find the new hardware" (PCI Ethernet Controller);

3. According to the system prompt, click the next step and designate the installation route as "X:\ LX_NET\Intel" (X refers to the assumed CD mark of your machine); install it by the system's prompt. In the course of it, the system may say that certain loaded file is not available. In this case, you have to re -designate the route of "copy file" (same as above: X: \LX_net\Intel) until the end of installation.

4. Reboot the computer and end the installation of hardware driver.

5. Windows NT 4.0

Based on the installed OS of Windows NT4, we will now explain how to install the attached network adapter:

1. enter the window of "control panel", double click the icon of "network";

2. there will come the window of "network" on the screen and under the prompt of "already installed the following network components", there should be no info about the adapter. If there is, please delete it with "delete" (before loading the adapter, the "delete" is virtual", single click "add";

3. there will be the window of "please select the desired network components " and select "adapter";

4. from the adapter list given by OS, single click "install from floppy disk",

select the route as:" X:\ LX_NET\Intel" and click "confirmed";

5. prompted by the system, please select "protocol", single click "add";

6. add the required network communication protocol name and working group's name. When finishing the loading of network protocol, single click "confirmed";

7. reboot the computer.

Trouble shooting

Whenever you come across any problems in the course of using the network adapter, please first make sure whether the driver is installed correctly, the wires are connected in a right way, the HUB performance quota are matching with the adapter, whether 10Mbps 10Base-T is adopted or the 100Mbps 100Base-TX. After that, check LED. This product provides 3 LED to demonstrate the network status. Please refer to the "Features and functions" for details.

Precautions

This product may generate Hertzian waves and cause certain impact over the wireless communications if installed or used improperly. When you have some problem with TV or radio and you think it is because of this product, please shut down the computer to see if there is still any interference. If the problem definitely comes from the computer, you can solve it by the following methods:

reinstall the receiving antenna;

put the transceiver far away from the computer;

do not plug the wires of computer and receivers into the same socket;

put shields at the housing's outlet of all expansion slots;

make sure all the metal supports are closely connected with the computer.