

Gigabit Ethernet Card



User Guide

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About this guide

Conventions used in this guide

To make sure that you perform certain tasks properly, take note of the following symbols used throughout this manual.



WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Information that you MUST follow to complete a task.



NOTE: Tips and additional information to aid in completing a task.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. ASUS Websites

The ASUS websites worldwide provide updated information on ASUS hardware and software products. The ASUS websites are listed in the ASUS Contact Information on page vi.

2. Optional Documentation

Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer. These documents are not part of the standard package.

ASUS contact information

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Support Email:	tsd@asus.com

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Chapter 1

All about the ASUS PXI-G45 Network Interface Card: the model features, card layout, system requirements and introduction to network card and driver installation procedures.

Introduction

1.1 Introduction

Thank you for buying the ASUS PXI-G45 Gigabit Ethernet card!

This user's guide tells you how to install and configure the card. It is assumed that you have adequate knowledge on PCs and some familiarity with Ethernet networks.

1.2 Package Contents

Check the following items if present in your package. If you discover damaged or missing items, contact your retailer.

- ☑ (1) ASUS PXI-G45 Gigabit Ethernet card
- ☑ (1) Support CD
- ☑ (1) User Guide

1.3 Models

The ASUS PXI-G45 Gigabit Ethernet card comes in a standard bracket for regular PCs.



1.4 Layout





The Boot ROM chip is an optional item. If your card did not come with this chip, an empty socket is provided in case you wish to install a Boot ROM at a later time.

1.5 Features

PCI-X Interface

- Full 64-bit (133 MHz) PCI-X bus interface
- Zero wait-state bus master data bursts
- PCI-X slot support

Network Interface

- Intel 10/100/1000 BASE-T speed
- RJ-45 LAN port

Boot ROM Interface (optional)

• Supports 64KB/128KB, byte-wide Flash ROM devices

1.6 LED Descriptions

The following describes the activity and speed LED located on the RJ-45 port.



Table 1.6 LED Table

ACT/L	INK LED	SF	PEED LED
Status	Description	Status	Description
OFF	No link	OFF	10Mbps connection
GREEN	Linked	ORANGE	100Mbps connection
FLASHING	Acting	GREEN	1Gbps connection

1.7 System Requirements

Your PC or server should meet the following system requirements before installing the ASUS PXI-G45 Gigabit Ethernet card:

- Pentium processor
- Minimum 64MB memory
- Available bus-mastering PCI or PCI-X slot

1.8 Installing the Network Card

Follow these steps to install the card into your PC.



Before handling the network card, touch a bare metal portion of your PC to discharge static electricity from your body. Wear a wrist strap grounded to the PC chassis when handling the card.

- 1. Make sure that the PC is turned off. Unplug the power cord from the electrical socket.
- 2. Remove the PC cover.
- 3. Locate an empty, non-shared bus-mastering PCI-X slot and remove its slot cover. Save the screw for later use.



Do not install the network card in a shared PCI-X slot. Otherwise, the card's performance will drop depending on the number of shared cards installed on the same PCI-X segment. Check your PC documentation to ensure that you install the card into the correct slot.

- 4. Carefully insert the card into the PCI-X slot.
- 5. Secure the card with the screw that you removed earlier.
- 6. Replace the PC cover and plug in the power cord.

1.9 **Connecting to the Network**

Follow these steps to connect the card to the network.



The RJ-45 port on the network card provides a 10 Mbps, 100 Mbps or 1000 Mbps connection, depending on the speed of the connected hub or switch.

- 1. Plug the RJ-45 connector of the twisted-pair network cable into the RJ-45 port on the card backplate.
- 2. Connect the other end of the network cable to an active network port.
- 3. Turn on the PC.
- 4. Proceed to the next section "Installing the Network Driver."

1.10 Installing the Network Driver



Before installing the network driver, make sure that:

- You have installed the card in the PC and connected to the network
- You have the Windows installation files. (These files may have been already copied to your hard drive when you installed Windows).

The network driver installation procedures vary depending on your operating system.

Refer to the online User Guide found in **/PRO1000/DOCS** of the support CD for detailed installation procedure of each operating system.



This chaper discusses the NIC driver installation using various operating systems (OS).

river Installation

2.1 Microsoft[®] Windows[®] NT Server 4.0

2.1.1 Intel[®] LAN Driver Installation

A. Preparing the Intel LAN Driver Disk

Windows NT 4.0 does not have the drivers for the Intel 82545EM LAN controllers. Before installing Windows NT 4.0, copy the LAN drivers from the support CD into a floppy disk.

- Before installing drivers, install Service Pack 5 or later. Advanced features for Intel adapters require Service Pack 6a or later.
 - Prepare one blank formatted high density floppy disk before proceeding.
- 1. Insert the support CD into the CD-ROM drive.
- 2. Run the utility from the following path:

\Drivers\LAN\MAKEDISK\dcreate.exe

3. In the following screen, click on Make Driver Disk.



4. The next screen allows you to select an operating system to install the driver. Select **Windows NT 4.0**. Refer to the next page.

🧏 Create Wired Install Disk	Intel PBO Adapters
	This utility creates a diskette with base drivers for Intel(R) PR0/100 and PR0/1000 adapters.
int _e l.	Choose the type of diskette to create C Windows XP/64 (Gigabit) Windows XP/64 (10/100) Windows XP/64 (10/100) Windows XP (32 bit, Gigabit) Windows XP (32 bit, 10/100) Windows 2000 (Gigabit) Windows 2000 (Gigabit) Windows 2000 (10/100) Drivers copied Base Driver (Intel(R) Pro/1000 Network Connections only)
	Choose a destination drive

- 5. Insert the floppy disk into the floppy disk drive when prompted.
- 6. Follow the screen instructions to complete the process.

B. New System Installation

- 1. Double-click the **Network** icon in the Control Panel to display the Network Setup Wizard.
- 2. When the **Installing Windows NT Networking** screen appears, press **Next** to display the following screen.



- 3. Check the **Wired to the Network** box, then click **Next**.
- 4. On the screen that appears, click the button **Select from list...** to display the **Select Network Adapter** window.

Select N	etwork Adapter	? ×
	Click the Network Adapter that matches your hard click OK. If you have an installation disk for this c Have Disk.	lware, and then omponent, click
Network	Adapter	
30 33 35 35 36 35 36 35 36 36 36 36 36 36 37 36 36 36 36 36 36 36 36	om 3C508 ISA 16-bit Ethernet Adapter om Etherlink II Adapter (also II/16 and II/16 TP) om Etherlink III ISA/PCMCIA Adapter om EtherLink III PCI Bus-Master Adapter (3C590) om Etherlink16/EtherLink16 TP Adapter	05) I
		Have Disk
	OK.	Cancel

- 5. Insert the LAN driver disk that you created, then click Have Disk...
- 6. Type A:\ in the dialog box that appears, then click OK. The following screen lists the Intel LAN adapters that you can install.

Dec a solumate su	pported by this hardv	vare manufacturer's disk.
(R) PB0/1000M	T Server Adapter	
	r Server Augpter	

7. Select Intel(R) PRO/1000MT Server Adapter, then click OK. Follow the succeeding screen instructions.

8. When done, the following screen appears showing the Intel(R) **PRO/1000MT Server Adapter** in the list.

To have setup start searching for a Network Adapter, click Start Search button.
Start Search
Network Adapters:
I ■ Intel(R) PRO/1000 MT Server Adapter
Select from list
 < <u>B</u> ack. <u>N</u> ext> Cancel

9. Click **Next** and follow any other screen instructions to complete the installation.

C. Existing System Installation

- 1. Double-click the **Network** icon in the Control Panel.
- 2. Select the Adapter tab, then click Add. A list of adapters appears.
- 4. Do not select an adapter from the list. Instead, insert the LAN driver disk that you created from the support CD.

Refer to the section *"A. Preparing the Intel LAN Driver Disk"* if you have not yet created the LAN driver disk.

5. Follow steps 5 to 13 in the section *"B. New System Installation"* to install the required LAN drivers.

2.2 Microsoft[®] Windows[®] 2000 Server

2.2.1 Intel[®] LAN Driver Installation

You may install the Intel 82545EM LAN drivers directly from the support CD. Proceed to the section *"B. Update LAN Driver on an Existing System Installation."*

If you wish to create a LAN driver disk, proceed to the section "A.Preparing the Intel LAN Driver Disk."

A. Preparing the Intel LAN Driver Disk



Prepare one blank formatted high density floppy disk before proceeding.

- 1. Insert the support CD into the CD-ROM drive.
- 2. Run the utility from the following path:

\Drivers\LAN\MAKEDISK\dcreate.exe

3. In the following screen, click on Make Driver Disk.



4. The next screen allows you to select an operating system to install the driver. Select **Windows 2000 (Gigabit)**. Refer to the next page.

🚡 Create Wired Install Disk	Intel [®] PRO A	Adapters
int _e l.	Choose the type of diskette to create Windows XP/64 (Gigabit) Windows XP/64 (10/100) Windows XP (32 bit, Gigabit) Windows XP (32 bit, 10/100) Mindows 2000 (Gigabit) Windows 2000 (10/100) Drivers copied Base Driver (Intel(R) Pro/1000 Network	C Windows NT 4.0 Windows 9x/Me Novell NetWare DDS, 0S/2
	Choose a destination drive	isk Egit

- 5. Insert the floppy disk into the floppy disk drive when prompted.
- 6. Follow the screen instructions to complete the process.

B. Update Driver on an Existing System Installation

You may update the LAN driver directly from the support CD.

- 1. Insert the support CD into the CD-ROM drive. On the screen that appears, click on Intel PRO/1000MT Server Adapter, then on the item Install Base Driver.
- 2. Follow the screen instructions to complete the driver update.



When done, your Computer Management window shows the installed LAN adapters.

Action Yew Image: Computer Management (Local) Image: Computer Management (Local) Image: Computer (Local) Image: Computer Management (Local) Image: Computer (Local) Image: Computer Management (Local) Image: Computer	📮 Computer Management		- 🗆 ×
Tree Image: PP-DLW Image: Computer Management (Local) Image: Computer Image: System Tools Image: Computer Image: System Tools Image: Computer Image: Computer Management (Local) Image: Computer Management (Local) Image: Computer Management (Local) Image: Computer Management (Local) Image: Computer Management (Local) Image: Computer Management (Local) Image: Computer Management (Local) Image: Computer (Local)	Action View	8 8 8 8	
Image: Storage Image:	Tree Computer Management (Local) System Tools System Tools System Information System Information Shared Folders Shared Folders Shared Folders Storage Disk Management Disk Defragmenter Disk Defragmenter Removable Storage Services and Applications	PP-DLW Computer Disk drives Diplay adapters DVD/CD-ROM drives D	

3. Highlight the Intel(R) PRO/1000MT Server Adapter, click the right mouse button, and select Properties to display the following.

Intel(R) PR0/1000 MT Server Adapter Driver Provider: Intel Driver Date: 10/16/2002 Driver Version: 6.4.16.0 Digital Signer: Microsoft Windows Hardware Compatibility Pub To view details about the driver files loaded for this device, click Driver Details. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Uninstall. To update the driver files for this device, click Uninstall. To update the driver files for this device, click Uninstall. To update the driver files for this device, click Uninstall. To update the driver files for this device, click Uninstall. To update the driver files for this device, click Uninstall. To update the driver files for this device, click Uninstall. To update the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver.	General	Advanced Drive	r Resources Power Management
Driver Provider: Intel Driver Date: 10/16/2002 Driver Version: 6.4.16.0 Digital Signer: Microsoft Windows Hardware Compatibility Pub To view details about the driver files loaded for this device, click Driver Details: To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver. Driver Details Uninstall Update Driver Update Driver	H	Intel(R) PR0/100	10 MT Server Adapter
Driver Date: 10/16/2002 Driver Version: 6.4.16.0 Digital Signer: Microsoft Windows Hardware Compatibility Pub To view details about the driver files loaded for this device, click Driver Details. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver. Driver Details Uninstall Update Driver		Driver Provider:	Intel
Driver Version: 6.4.16.0 Digital Signer: Microsoft Windows Hardware Compatibility Pub To view details about the driver files loaded for this device, click Driver Details. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver. Driver Details Uninstall Update Driver		Driver Date:	10/16/2002
Digital Signer: Microsoft Windows Hardware Compatibility Pub To view details about the driver files loaded for this device, click Driver Details. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver. Driver Details. Uninstall Update Driver.		Driver Version:	6.4.16.0
To view details about the driver files loaded for this device, click Driver Details. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver.		151-22 L C	
Driver Details	To viev Details, the driv	v details about the d To uninstall the driv rer files for this devic	Microsoft Windows Hardware Compatibility Put Iriver files loaded for this device, click Driver ver files for this device, click Uninstall. To update e, click Update Driver.
	To viev Details the driv	urgital signer: To uninstall the driv ver files for this devic	Microsoft Windows Hardware Compatibility Pub Iriver files loaded for this device, click Driver ver files for this device, click Uninstall. To update e, click Update Driver.

4. Click **Driver Details** to display a list of the files related to the Intel PRO/1000 MT Server Adapter.



5. Highlight the Intel(R) PRO/1000 MT Server Adapter Connection, click the right mouse button, and select Properties to display the following.

Intel(R) Pl	R0/1000 MT Sei	rver Adapter Properties	? ×
General	Advanced Drive	er Resources Power Management	
	Intel(R) PRO/100	00 MT Server Adapter	
	Device type:	Network adapters	
	Manufacturer:	Intel	
	Location:	PCI bus 18, device 2, function 0	
Devic	e status		-
This (If you start I Device	Device status This device is working properly. If you are having problems with this device, click Troubleshooter to start the troubleshooter. Troubleshooter		
Use thi	s device (enable)		1
-		OKCa	ancel

6. Click **Driver Details** to display a list of the files related to the Intel 82545EM LAN driver.

tel(R) P	RO/1000 MT Ser	ver Adapter Properties	? :
General	Advanced Drive	er Resources Power Management	ļ.
ЩЩ)	Intel(R) PR0/100	00 MT Server Adapter	
	Driver Provider:	Intel	
	Driver Date:	10/16/2002	
	Driver Version:	6.4.16.0	
	Digital Signer:	Microsoft Windows Hardware Comp	atibility Publ
To view Details,) details about the c To uninstall the driv	driver files loaded for this device, click [ver files for this device, click Uninstall. so click to the device, click Uninstall.	Driver To update
To view Details the driv	v details about the c To uninstall the driv er files for this devic	driver files loaded for this device, click [ver files for this device, click Uninstall. :e, click Update Driver.)river To update
To view Details the driv	v details about the o To uninstall the driv er files for this devic Driver Details	driver files loaded for this device, click D ver files for this device, click Uninstall. se, click Update Driver.	Driver To update

You may also update the LAN drivers from the LAN Driver Disk if you created one.

Follow these steps to update from the LAN driver disk.

- 1. Boot Windows 2000 system and log on as Administrator.
- 2. Click on the Start button. Select Settings, then Control Panel.
- 3. Double-click the **System** icon in the Control Panel. Select the **Hardware** tab to display the following screen.
- 4. Click on **Device Manager**, then on **Other Devices**.
- 5. Highlight Ethernet Controller, then click the right mouse button and select Properties.
- 6. Select the **Driver** tab and click on **Update Drivers**.
- 7. Click Next. Select Display a list of the known drivers for this device ...
- 8. Select Network adapters under Hardware Type, and click Next.
- 9. Click Have Disk..., then insert the LAN driver disk.
- 10. Follow the succeeding instructions to complete the installation.

2.3 Microsoft[®] Windows[®] XP Professional

2.3.1 Intel[®] LAN Driver Installation

For Windows XP Professional users, we recommended that you use the Intel 82545EM driver from the support CD.

A. Preparing the Intel LAN Driver Disk

- 1. Insert the support CD into the CD-ROM drive.
- 2. Run the utility from the following path: \Drivers\LAN\MAKEDISK\dcreate.exe
- 3. In the following screen, click on Make Driver Disk.



4. The next screen allows you to select an operating system to install the driver. Select **Windows XP (32 bit, Gigabit)**. Refer to the next page.

	Intel [®] PRO Adapter
	This utility creates a diskette with base drivers for Intel(R) PRO/100 and PRO/1000 adapters.
int _e l.	Choose the type of diskette to create Windows XP/64 (Gigabit) Windows NT 4.0 Windows XP/64 (10/100) Windows Sx/Me Windows XP/64 (10/100) Novell NetWare Windows XP (32 bit, Gigabit) Novell NetWare Windows XP (32 bit, 10/100) DOS, 05/2 Windows 2000 (10/100) Dos, 05/2 Drivers copied Base Driver (Intel(R) Pro/1000 Network Connections only)
	Choose a destination drive
	Choose a destination drive

- 5. Follow the succeeding installation instructions.
- 6. When done, the following screen appears. Click **Finish** to complete the installation.



2.4 Novell® NetWare® Server

2.4.1 Intel[®] LAN Driver Installation

You may install the Intel 82545EM LAN drivers directly from the support CD. Proceed to the section *"B. Update LAN Driver on an Existing System Installation."*

If you wish to create a LAN driver disk, proceed to the section "A.Preparing the Intel LAN Driver Disk."

A. Preparing the Intel LAN Driver Disk



Prepare one blank formatted high density floppy disk before proceeding.

- 1. Insert the support CD into the CD-ROM drive.
- 2. Run the utility from the following path:

 $\label{eq:lass} \label{eq:lass} \label{eq:la$

3. In the following screen, click on Make Driver Disk.



4. The next screen allows you to select an operating system to install the driver. Select **Novell Netware**. Refer to the next page.

🚡 Create Wired Install Disl	Intel PRO A	dapters
	This utility creates a diskette with base of and PRO/1000 adapters.	drivers for Intel(R) PRO/100
	Choose the type of diskette to create	
int _e l.	C Windows XP/64 (Gigabit) Windows XP/64 (10/100) Windows XP (32 bit, Gigabit) Windows XP (32 bit, 10/100) Windows 2000 (Gigabit) Windows 2000 (10/100)	C Windows NT 4.0 Windows 9x/Me Novell NetWare DDS, 0S/2
	Base Driver (Intel(R) Pro/1000 Networ	ik Connections only)
		isk Exit

- 5. Insert the floppy disk into the floppy disk drive when prompted.
- 6. Follow the screen instructions to complete the process.

B. NetWare 5.1/6.0 Installations

- 1. From the NetWare console, type NWCONFIG or Load Install and press <Enter>.
- 2. From the Configuration Options screen, choose **Driver options** and press <Enter>.
- 3. Choose **Configure network drivers** and press <Enter>. If any drivers are already loaded, a list of them appears.
- 4. Choose **Load an additional driver** and press <Enter>. A list of drivers appears.
- 5. Insert the Intel CD or floppy disk you've created and choose **Install an unlisted driver** by pressing <Insert>.
- If you're using a floppy disk, insert the disk in drive A and press<Enter>. If you've mounted the CD as a NetW are volume, press <F3> andenter the source path (CD volume).
- 7. The driver name is displayed: Intel(R) PRO PCI adapter. Press <Enter> to select it.

- 8. A prompt appears asking if you want to copy the driver.Select Yes and press <Enter>.
- 9. The next screen asks for parameters for loading the driver. Tomodify any driver parameters or protocols, highlight **Select/Modify driver parameters and protocols** and press <Enter>. If you have multiple adapters, enter the slot number for the adapter you are currently configuring. When finished configuring the driver, select **Save parameters and loaddriver to continue.**



- If your system contains a single network adapter, you may enter any number for the slot. The driver will automatically detect the correct slot number and load successfully.
- If your system contains more than one network adapter, you can find the valid slot numbers for your adapters by pressing <Alt>-<Esc> to switch to the console screen in NetWare. Type LOAD
 <driver_name> (CE100B or CE1000) and press <Enter>. The driver will attempt to load and prompt you with the available slot numbers. Note the slot numbers, and press <Esc> to abort the driver load. Use <Alt>-<Esc> to switch back to the Install screen and enter the correct slot number.
- 10. To complete the driver installation process, go back to theConfiguration Options screen by pressing <Esc> until you see the Configuration Options screen.
- 11. Choose **Exit** to return to the server console prompt.

2.5 UnixWare* 7 and Open UNIX* 8



When installing and configuring network adapters, you may need to refer to Caldera* (formerly SCO) UnixWare 7 or Open UNIX 8 documentation found in /PRO1000/DOCS of the support CD. Have this documentation available during the installation process.

2.5.1 Installation and Configuration

To ensure predictable behavior when installing network adapters, remove the configuration settings for all adapters and reboot the system prior to configuring new adapters or reconfiguring installed adapters (see instructions below). For maximum system stability, it is recommended that all network adapters be configured with the same driver type.

Recommendations

- **Do not select "Cancel" when in the process of adding an adapter.** To prevent the Network Configuration Manager from hanging and to avoid rebooting, continue installing the adapter. After it's installed, manually remove it.
- If you are installing and configuring a PRO/100 driver, replace the references to e1008g with eeE8 in the instructions below. The examples given are for the PRO/1000 driver.

A. Instructions

1. Start the Network Configuration Manager:

netcfg

2. Remove any adapters that are configured with the old drivers by selecting the Hardware menu -> Remove Network Device.

Exit the Network Configuration Manager.

3. Verify that there is not an older version of the driver on the system using 'pkginfo -l <driver_name>'. For example, enter:

pkginfo -l e1008g

If there is, remove the driver using 'pkgrm <driver_name>'. For example:

pkgrm e1008g

Reboot the system:

init 6

4. If you are installing the new driver from the CD, follow these steps. Otherwise, go to the next step.

Mount the CDROM on the system. For example:

mkdir /<cdrom_mount_location> mount -F cdfs -r /dev/cdrom/cdrom1 / <cdrom_mount_location>

You can install the driver directly from the CDROM or spool the driver from the CDROM so the driver resides on the system. Example of installing the driver directly from the CD:

pkgadd –d /<cdrom_mount_location>/UNIX/UW7DDI8/ e1008g.pkg

Example of spooling the driver from the CD to the system:

pkgadd -s spool –d /<cdrom_mount_location>/UNIX/ UW7DDI8/e1008g.pkg e1008g

pkgadd e1008g

5. If you are downloading the latest driver from the Intel website, save the package to a directory on your system; for example, the /tmp directory.

You can install the driver from this directory or spool the driver from the directory so the driver resides on the system. Example of installing the driver from the directory:

pkgadd -- d /< dir_location>/e1008g.pkg

Example of spooling the driver from the directory to the system:

pkgadd -s spool –d /<dir_location>/e1008g.pkg e1008g pkgadd e1008g

If you will be creating teams and/or VLANs, continue on with the instructions in Advanced Network Services below. Otherwise, use the Network Configuration Manager to configure the adapters.

2.6 Linux RedHat 8.0

2.6.1 Intel[®] LAN Driver Installation

Linux RedHat 8.0 system can automatically recognize Intel 82545EM network controller during installation. You don't need to load or modify the network driver for the onboard LAN device.