CardBus 10/100 Ethernet PC Card Adapter

Quick Installation Guide

Hardware Installation

This chapter describes how to install the CardBus 10/100M dual-speed PC Card in your notebook computer and connect it to network. It's referred to "the PC Card" in this manual.

The PC Card could connect to either 100Mbps Fast Ethernet or 10Mbps Ethernet over unshielded twisted pair (UTP) calbe. The PC Card has the ability of automatic sensing and operating on either speed without manual recofiguration.

After finishing the installation of PC Card into your Notebook, please refer to **Software Installation** on how to install network drivers using menu driven installation utility.

Inserting the CardBus Dual-Speed PC Card

- 1. Hold the CardBus PC Card with wide connector toward the slot and the brand lable facing upward.
- 2. Insert the CardBus PC Card and push it firmly into the bottom. (Please see the figuer on the next page for reference)



Removing the CardBus Dual-Speed PC Card

It's quite different for various computer mechanical design. Please refer to the PC Card removal instruction in the document for your notebook computer.

Connecting and Removing the Cable of Media Coupler to the CardBus PC Card

Grasp the PC Card 15-pins connector at the end of the media coupler with the pointing triangle facing upward. Gently insert it into the mating connector on the PC Card until it clicks in place at both sides.

Attention should be paid when removing the 15-pins connector. Please press the both sides of the connectors before dragging it out of the PC Card.

Connecting to the Network

Connect unshielded twisted pair (UTP) cable to the RJ-45 connector of media coupler before loading any network driver.

- For operation in the100Mbps (100Base-TX) Ethernet network, a Category 5 unshielded twisted pair (UTP) cable should be used to connect between media coupler and 100Mbps hub or switch.
- For operation in the 10Mbps (10Base-T) Ethernet network, Category 3, 4 or 5 unshielded twisted pair (UTP) cable could be used to connect between the media coupler and a 10Mbps hub or switch.

LED Indicators



Software Installation

Extensive software drivers have been developped for CardBus 10/100M PC Card including DOS-Mode, Microsoft Windows 3.x, Windows 95, Windows NT. Some of the Operating Systems and PC Card/Socket Services haven't been well implemented to support new CardBus technology at the present time. Our unique drivers and utility enable the CardBus 10/100M Ethernet PC Card to run almost all the major environments.

This Chapter consists several parts: Windows 95, Windows 98, Windows 2000, Windows NT 4.0, Windows NT 3.5x and various configuration in DOS-mode. The user could refer to specific section for installation.

Windows 95 Installation

Windows 95 released two major versions at the time when this manual is written. The first version (refer to "*Native Windows 95*" afterward) supports for 16-bit PC Card but not for CardBus PC Card. The latest version Windows 95 with OEM Service Release #2 (refer to *OSR2 Windows 95 or later*) supports both 16-bit and CardBus PC Card. The CardBus 10/100M Ethernet PC Card could operates in either Native or OSR2 version Windows 95 environments. However, the installation procedures are different. The section will presents you how to identify your version of Windows 95 first. Then you could decide which kind of installation process should be followed:

Determining the Version of Windows 95

- 1. After successfully booting and login the Windows 95. Click on the **Start Button.**
- 2. Select the Settings.
- 3. Select Control Panel.
- 4. Within the Control Panel, double-click the **System icon.**
- 5. Select the **General** Tab, this system information will displayed like the following figure.



Version Information here!

- 4.00.950 or 4.00.950a is first released Windows 95 which don't support CardBus. Refer to Native Windows 95 section for installation.
- 4.00.950B is Windows 95 with OEM Service Release #2 which support both PC Card and CardBus PC Card. Refer to OSR2 Windows 95 or Later section for installation.

Native Windows 95

Though Non-OSR2 Windows 95 doesn't support CardBus PC Card, you could use our driver to run the the CardBus 10/100M Ethernet PC Card.

- 1. Insert the Cardbus 10/100M Ethernet PC Card into the socket.
- 2. Click on the **Start** button.
- 3. Select Setting
- 4. Select **Control Panel.** And the **Control Panel** show up.
- 5. Double-click the **Network** icon. And the **Network** Menu prompt up.
- 6. Click the Add button. And Select Network Components Type Menu shows.
- 7. Double-click the Adapter. The Select Network Adapters Menu opens.
- 8. Click the **Have Disk** button. The Install From Disk Menu shows.
- 9. Insert the Drive Disk.
- 10. Give A:\ in the input box. Click **OK**. (Or type the path name whereever you place the driver programs)
- 11. Select the CardBus Fast Ethernet 10/100 Adapter manual load

Select De	vice
112)	Click the Network adapters that matches your hardware, and then click OK. If you don't know which model you have, click OK. This list shows only what was found on the installation disk.
Mode <u>l</u> s:	
CardBus	Fast Ethernet 10/100 Adapter
CardBus	Fast Ethernet 10/100 Adapter manual load
	Maria Dist.
	Dave Disk"
	OK Cancel
	Service Services

- 12. Click **OK.** A dialog box will appear to adjust the driver's settings. The resources assignment to adapter should be unique in the system.
- 13. The Newwork window reopens.
- 14. Click OK
- 15. Insert your original Windows 95 CD or disk set. Input the drive which contain the source. Click OK
- 16. After the copy file process is complete, the system will promt you to restart the Computer.
- 17. For the first time installation, you need to go to the Network in the Control Panel to setup the protocols, clients and services properly according to your need.
- Note: If you start the computer without the CardBus 10/100 Ethernet PC Card installed in the socket, the native Windows 95 system will prompt you the warning message "Your Network Adapter CardBus Fast Ethernet 10/100 Adapter manual load"[0001] is not working properly.

You may need to set it up again. For more information see the network troubleshutter in the windows Help".

If you don't need to use the CardBus 10/100 PC Card at this time, you can just ignore the message. Otherwise, you need to insert the CardBus 10/100 Ethernet PC Card into the CardBus socket and just restart the native Windows 95 again to make the Card working functionally.

OSR2 Windows 95 and Later

Windows 95 OSR2 and later versions support both CardBus and 16-bit PC Card. That is, you could run the 16-bit PC Card and CardBus 10/100M Ethernet PC Card simultaneously with the plug-n-play support. In addition to the plug n-play support of both types of PC Card, the user also could perform the Hot Swap function provided by the Card and Socket Service built in the OSR2 Windows 95 or later.

- 1. After the Windows 95 OSR2 have successfully boot, insert the CardBus 10/100 Ethernet PC Card with media coupler attached into the CardBus Socket.
- 2. Click Next on Update Device Drivers Winzard
- 3. Click The Others Locations button

Update Device Driver W	/izard
	Windows was unable to locate a driver for this device. If you do not want to install a driver now, click Finish. To search for a driver manually, click Othet Locations. Dr, to begin the automatic search again, click Back.
~	Other Locations
	< Back Finish Cancel

- 4. Insert driver diskette into the floopy disk.
- Type A:\ .The driver will be installed and you may be asked for the original Windows 95 CD/disks.
- For the first time installation, please click Network icon in Control Panel to add Protocols, Client and Service if you needed
- 7. Reboot the machine and the card will be fully functional.

Windows 98 Installation

1. When the CardBus 10/100 Ethernet PC Card Adapter is well inserted into the PC Card slot of your system, the following figure will appear automatically. Click **Next** to proceed.



2. Select Search for the best driver for your device (Recommended) and click Next.



3. Insert the device driver disk into the floppy disk drive. Select **Floppy disk drives** and click **Next**.

**	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search. Image: CD-ROM drive Image: CD-ROM drive Image: Microsoft Windows Update Image: Search a location;
	D:\\wIN98_SE\SETUP\WIN98
	< <u>B</u> ack Next> Cancel

4. Select The updated driver (Recommended) CardBus Fast Ethernet 10/100 Adapter and click Next.

	Windows has found an updated also some other drivers that shou	driver for this device, and Id work with this device.
	What do you want to install?	
	The updated driver (Recomme	ndedi
🍣 📚	CardBus Fast Ethernet 10/100	Adapter
	C One of the other drivers.	∐iew List
	< Back Nex	(t) Cancel

5. When the appropriate driver for the device is found, click **Next** to install. When asked to supply the original Windows 98 installation

CD-ROM, you'll have to load it into the CD-ROM drive for the software installation need.



- 6. Wait for a while until the file copy process is complete.
- 7. Click **Finish.** Then the software installation is successfully complete.



8. When asked to restart your system, click **Yes** to activate the device.



9. To verify if the device is well installed in your system and enabled, go to Start→Settings→ Control Panel→System→Device Manager. Make sure CardBus Fast Ethernet 10/100 Adapter appears as illustrated below. If not, it means your device is not properly installed. Then consult your dealer for more information.

ystem Pr	operties					? ×
General	Device Mar	ager Hardwa	re Profiles	Performar	nce	
🖲 Vie	w devices by	type O	View devic	es by <u>c</u> onr	nection	
	amputer > CDROM > Disk drives > Display ada > Floppy disk > Hard disk of > Hard disk of > Keyboard > Modem > Monitors > Mouse > PemClA sc > PomClA sc > PomClA sc	pters controllers vices is Fast Ethernet Adapter cket & LPT)	t 10/100 Ac	dapter	>	4
P <u>r</u> o	perties	Re <u>f</u> resh	R <u>e</u> r	move	Pri <u>n</u> t	
				OK	Ca	ancel

Windows 2000 Installation

1. When the CardBus 10/100 Ethernet PC Card Adapter is well inserted into the PC Card slot of your system, the following figure will appear automatically. Click **Next** to proceed.



2. Select Search for a suitable driver for my device (recommended) and click Next.

Found New Hardware Wizard	
Install Hardware Device Drivers A device driver is a rothware program that enables a hardware an operating system.	device to work with
This wizard will complete the installation for this device:	
A device driver is a software program that makes a hardware d needs driver files to your new device. To locate driver files and installation click Nest. What do you want the wizard to do?	evice work. Windows I complete the
Search for a suitable driver for my device (recommended)	ŝ.
C Display a list of the known drivers for this device so that driver	I can choose a specific
< <u>B</u> ack	Next > Cancel

3. Insert the device driver disk into the floppy disk drive. Select **Floppy disk drives** and click **Next**.



4. When the appropriate driver for the device is found, click **Next** to install.

Found New Hardware Wizard
Driver Files Search Results The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
👔 Ethernet Controller
Windows found a driver for this device. To install the driver Windows found, click Next,
a \netcb100.in/
< <u>Back</u> Cancel

5. Click Yes.



6. Click **Finish.** Then the software installation is successfully complete.



7. To verify if the device is well installed in your system and enabled, go to Start→Settings→ Control Panel→System→Hardware→Device Manager. Make sure CardBus Fast Ethernet 10/100 Adapter appears as illustrated below. If not, it means your device is not properly installed. Then consult your dealer for more information.



Windows NT 4.0 Installation

Assumed that the Network Services already installed in the NT 4.0 system.

- 1. Insert the Cardbus 10/100M Fast Ethernet PC Card into any one of PC Card Slots in system.
- 2. Power up Windows NT 4.0
- 3. Open My Computer
- 4. Open Control Panel icon
- 5. Double-click the Network icon
- 6. Select Adapters tab.
- 7. Press Add to add network adapter
- 8. Press Have Disk button
- 9. Insert the driver disk into floppy drive
- 10. Specify the path to "A:\ and press OK

(Or type the path name whereever you place the driver programs)

- 11. A dialog box will appear to adjust the driver's settings. The resources assignment to the adapter must be unique in the system.
- 12. Press OK when all setting are completed.
- 13. Press Close to complete network setting

Windows NT 3.5x Installation

- 1. In Main Group of NT 3.5x, open **Control Panel** and click on **Network** icon.
- In Network Settings dialog box, push Add Adapter... button. The Add Network Adapter dialog box will appear.
- 3. Choose **<Other> requires disk** from manufacturer" from the network adapter card list and press **Continue.**
- 4. When Windows NT prompts for manufacturer disk, insert driver diskette and press **OK** until the **Network Setting Change** dialog box appears.
- 5. Restart now to have the card take effect.