

Installing LAN Drivers for Windows 98

Follow these steps to install the Intel 82559 LAN/Ethernet driver for Windows 95:

1. From the **Control Panel**, double-click the **System** icon.
2. Click the **Device Manager** tab.
3. Double-click **Other Devices** or Network Adapters in the list area.
4. Double-click a PCI Ethernet Controller.
5. Click the **Driver** tab, then click **Update Driver**.
6. Click **Next** at the Update Device Driver Wizard.
7. Select "**Display a list of all the drivers...**" and click **Next**.
8. Insert the Intel adapter disk and click **Have Disk**.
9. Enter the appropriate drive for your disk media (A:) and click **OK**.
10. Click **OK** at the Select Device dialog box.
11. The Update Wizard displays the message that it has found the driver. Click **Next**.
12. Click **Finish**.
13. Restart your computer when prompted.

IBD69 / IBD693 IBD99 / IBD993 MicroPCI VGA/LAN Card

User's Guide

LAN DRIVERS INSTALLATION

Making Floppy Disks for NetWare and Windows Installation

You need to use a floppy disk to install the LAN drivers. Use the MAKEDISK.BAT utility located in the \LAN\I8255X\MAKEDISK directory on the CD.

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
NW = Novell NetWare servers and clients
DOS = Microsoft DOS and IBM OS2

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

NOTE: The utility MUST be run from the \LAN\I8255X\MAKEDISK directory.

Alternately, you can use the following .BAT files (located in the root directory on this CD) to simplify this process:

MAKEW9X.BAT -- Creates a drivers disk for Windows 95 and Windows 98.

- IBD69/99 supports C&T 69000 (2MB embedded)/IBD693/993 supports 69030 (4MB embedded) VGA controller
- TFT LCD/DSTN LCD/CRT support
- Resolution / Colors / Refresh Rate
1280 x 1024 / 24bits (true color) / 60Hz (supported by C&T 69030 only)
1280 x 1024 / 256 / 60Hz
1024 x 768 / 16bits (high color) / 85, 75, 60Hz
800 x 600 / 24bits (true color) / 85, 75, 60Hz
- Support drivers for Windows 95/98/NT4.0

Ethernet Features (IBD99/993)

- Intel 82559 Single-chip Ethernet controller
- 10 BaseT/100 BaseTX support, full duplex
- IEEE802.3, IEEE802.3U compliant
- Backward Compatible with Intel 82558

The following section describes the normal display driver installation procedures for Windows 95/98. Use the following procedures when installing the display drivers for Windows 95/98.

1. Click **Start**, then **Settings**, then **Control Panel**.
2. Double click **Display**.
3. Select the **Settings** tab, click the **Change Display Type** button.
4. Click the **Change** button under **Adapter Type**.
5. Click the **Have Disk** button and press **OK**.
6. Specify the path to the new driver and press **<ENTER>**:
 Example 1: Insert the driver CD in the CD-ROM drive, and enter
 d:\vga\ct69000\win95 (assuming D: is the CD-ROM drive.)
 Example 2: If you're not sure exactly where the drivers are, click the
Browse button to find them.
7. The *Select Device* dialog box will appear. Select the hardware that corresponds to the one you installed in your machine and click **OK**.
8. Windows 95/98 will copy the display drivers to the proper directories on your system.
9. Continue by choosing **Close**. You will be asked to restart your machine. Do so accordingly.
10. After the system has restarted, you can go back into the **Display** applet and select alternate screen resolutions and color depths.

Installing the VGA Drivers for Windows NT 4.0

Once you are in the Windows NT 4.0 environment, follow the procedures below to install the VGA drivers that come with your board.

JP2: LCD Power Setting

3.3V Setting	5V Setting
	

JP3: Onboard LAN Enable/Disable

JP3	Setting	LAN
	Pin 1-2 Short/Closed	Enabled
	Pin 2-3 Short/Closed	Disabled

JP4: Onboard C&T VGA Enable/Disable

JP4	Setting	VGA Function
	Pin 1-2 Short/Closed	Enabled
	Pin 2-3 Short/Closed	Disabled

** The SW1 DIP Switch is for manufacturing test only.*



IBD99 / IBD993

*** IBD69/IBD693 does not have the 82559 Ethernet Controller integrated**

MAKENW.BAT -- Creates a drivers disk for Novell NetWare servers and clients.

Installing LAN Drivers for Windows 95

Follow these steps to install the Intel 82559 LAN/Ethernet driver for Windows 95:

1. From the **Control Panel**, double-click the **System** icon.
2. Click the **Device Manager** tab.
3. Double-click **Other Devices** (question mark icon) in the list area.
4. Double-click a PCI Ethernet Controller.
5. Click the **Driver** tab, then click **Update Driver**.
6. Insert the Configuration and Drivers disk or CD in the appropriate drive, and at the Update Device Driver Wizard, select "**No**" and click **Next**.
7. Click **Have Disk**, insert the Configuration and Drivers disk in the appropriate drive, and click **OK**.
8. At the Select Device dialog box, click **OK** again.
9. Follow any prompts for Windows 95 installation disks and restart when prompted.

MicroPCI Card Installation

To insert the MicroPCI daughter cards, position it at 30° to the PCB and gently push it into the MicroPCI connector (Figure 1). The card will not fit when inserted at an angle of 45° or 15°. Once inserted, slowly press the card towards the PCB until it locks on both sides to the clips of the connector. Screw the card to the sides of the PCB to secure the installation. To remove the MicroPCI card, pull the 'clips' sideways as shown in Figure 2.

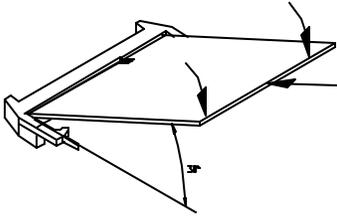


Figure 1.

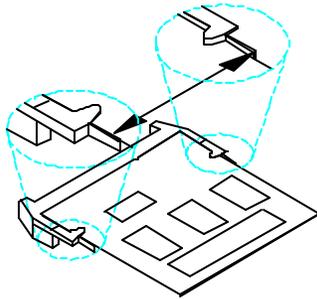
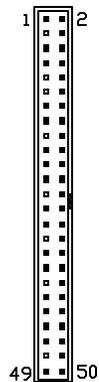


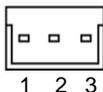
Figure 2.

1. Click the **Start** button, then go to **Settings** and click on **Control Panel**.
2. Click on the **Display** icon to start the *Display Properties* window.
3. Click on the **Settings** tab, and then click on **Display Type**.
4. In the *Change Display Type* window, click on **Change Adapter Type**. This will bring up the *Select Device* window.
5. In the *Change Display* window, click on **Have Disk**. Enter the directory where the Windows NT driver files are located as **d:\vga\tct69000\winnt40** (assuming D: is the CD-ROM drive.) Then select **OK**, or press **ENTER**.
6. Select **Chips Video Accelerator** from the display list provided, then click **OK** or press **ENTER**.
7. You will then see a warning panel about Third Party Drivers. Click on **Yes** to finish the installation.
8. Once the installation is complete, the system must be shut down and restarted for the new drivers to take effect.
9. When the system has restarted, the default graphics mode (usually 640x480x256color) has been automatically selected. Click the **Start** button, and then go to **Settings** and click on **Control Panel**. Click on the **Display** icon to start the *Display Properties* window. Click on the **Settings** tab. A new screen setting can be selected using either of the following methods:
 - A. Use the slide-bar in the Desktop Area to select new setting.
 - B. Click on **List All Modes**. From the list provided, select a new setting, then click **OK** or press **ENTER**.
 - C. Click on **Test** to test the newly selected graphics mode. Follow the instructions given on screen. A test screen should appear, followed by the *Testing Mode* window. Click on **Yes** to continue. Click on **Apply** to switch to the new graphics mode. Graphics modes are changed dynamically on NT 4.0, so you do not need to shut down and restart for the new screen settings to work.



Signal Name	Pin #	Pin #	Signal Name
GND	1	2	P33
P34	3	4	P31
P35	5	6	P32
P30	7	8	P28
P29	9	10	P27
P25	11	12	P26
P24	13	14	P21
P23	15	16	P22
P16	17	18	P20
P17	19	20	P18
P19	21	22	P14
P13	23	24	P12
P15	25	26	P11
P7	27	28	P10
5V or 3.3V	29	30	5V or 3.3V
P9	31	32	P8
P4	33	34	P6
P3	35	36	P5
P2	37	38	P1
M	39	40	P0
SHFCLK	41	42	ENABKL
FPVDD	43	44	FLM(V SYNC)
FPVEE	45	46	LP(H SYNC)
GND	47	48	GND
+12V	49	50	+12V

JP1: WakeOnLAN Connector



Pin #	Signal Name
1	+5VSB
2	Ground
3	Wake on LAN

	Mono	Mono	Mono	Color	Color	Color	Color	Color	Color	Color	Color	Color
Pin Name	SS 8-bit	DD 8-bit	DD 16-bit	TFT 9/12/16 bit	TFT 18/24 bit	TFT 36-bit	TFT 18/24 bit	TFT+HR 8-bit (4bP)	STN-SS 16-bit (4bP)	STN-SS 8-bit (4bP)	STN-DD 16-bit (4bP)	STN-DD 24-bit
P0	D0	UD3	UD7	B0	B0	FB0	FB0	R1	UR1	UR0	UR0	UR0
P1	D1	UD2	UD6	B1	B1	FB1	FB1	B1	G1	UG1	UG0	UG0
P2	D2	UD1	UD5	B2	B2	FB2	FB2	G2	B1	UB1	UB0	UB0
P3	D3	UD0	UD4	B3	B3	FB3	FB3	B3	R2	UR2	UR1	LR0
P4	D4	LD3	UD3	B4	B4	FB4	SB0	G4	G3	LR1	LR0	LG0
P5	D5	LD2	UD2	G0	B5	FB5	SB1	R5	B2	LG1	LG0	LB0
P6	D6	LD1	UD1	G1	B6	SB0	SB2	B5	R3	LB1	LB0	UR1
P7	D7	LD0	UD0	G2	B7	SB1	B3		G3	LR2	LR1	UG1
P8			LD7	G3	G0	SB2	FG0		B3		UG1	UB1
P9			LD6	G4	G1	SB3	FG1		R4		UB1	LR1
P10			LD5	G5	G2	SB4	FG2		G4		UR2	LG1
P11			LD4	R0	G3	SB5	FG3		B4		UG2	LB1
P12			LD3	R1	G4	FG0	SG0		R5		LG1	UR2
P13			LD2	R2	G5	FG1	SG1		G5		LB1	UG2
P14			LD1	R3	G6	FG2	SG2		B5		LR2	UB2
P15			LD0	R4	G7	FG3	SG3		G6		LG2	LR2
P16					R0	FG4	FR0					LG2
P17					R1	FG5	FR1					LB2
P18					R2	SG0	FR2					UR3
P19					R3	SG1	FR3					UG3
P20					R4	SG2	SR0					LR3
P21					R5	SG3	SR1					LG3
P22					R6	SG4	SR2					LB3
P23					R7	SG5	SR3					
P24						FR0						
P25						FR1						
P26						FR2						
P27						FR3						
P28						FR4						
P29						FR5						
P30						SR0						
P31						SR1						
P32						SR2						
P33						SR3						
P34						SR4						
P35						SR5						
SHFCLK	SHFCL K	SHFCL K	SHFCL K	SHFCL K	SHFCL K	SHFCL K	SHFCL K	SHFCLK	SHFCLK	SHFCLK	SHFCLK	SHFCLK
Pixels/Clk:	8	8	16	1	1	2	2	2-2/3	5-1/3	2-2/3	5-1/3	8