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Chapter 1 : Introduction

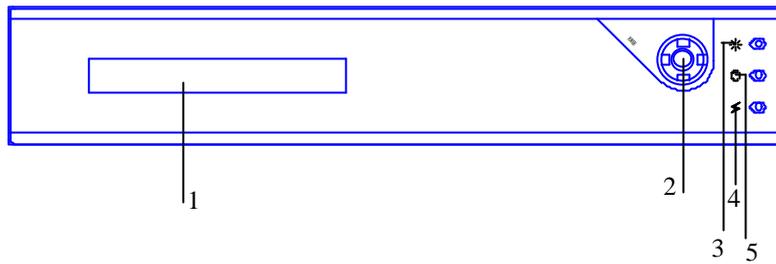
1-1 5BLIP System Introduction

WinNET II-5BLIP PC System integrates the latest Cyrix MediaGX advanced technology into a compact small box 290mm(L)x225mm (W)x55mm(H). It combines performance, flexibility, and easy of use into a highly integrated system. With various application field, WinNET II can be used as Thin Client PC, NC, NetPC, Terminal, information station,...etc. The WinNET II PC system gives developers and OEMs a revolutionary hardware platform.

1-1-1 WinNET II System Specification

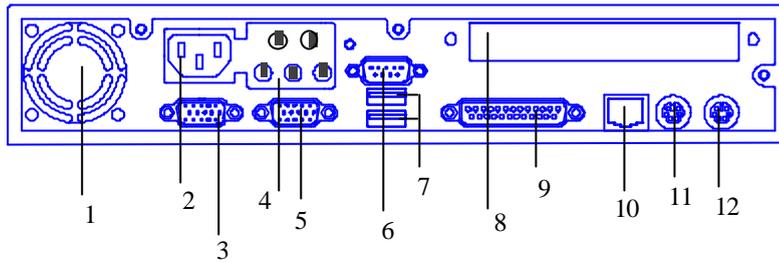
CPU	<ul style="list-style-type: none">• Cyrix GXi 166/180/200 MHz
System memory	<ul style="list-style-type: none">• 2x72-pin SIMM 5V EDO• 8MB/16MB/32MB/64MB
Video	<ul style="list-style-type: none">• CRT and LCD Panel refresh rates are indepently programmable to allow optimum image quality via DuoView architecture• Support 1280x1024x256 colorCRT monitor• Support VESA DDC2B/DPMS• Support 800x600x262k colorTFT LVDS display monitor
Audio	<ul style="list-style-type: none">• Supports software written for Sound Blaster, Adlib, and MIDI
LAN	<ul style="list-style-type: none">• 10/100 Base-T RJ-45 connector
Storage	<ul style="list-style-type: none">• One 3.5" HDD• One 3.5" FDD
Expansion Slot	<ul style="list-style-type: none">• One 16-bit ISA Slot and 32-bit PCI slotNote: Only one slot can be used at a time
Case Size	<ul style="list-style-type: none">• 290 mm (W) x 220mm (D) x 53mm (H)
Power Supply	<ul style="list-style-type: none">• 60W, AC input 100~240V

1-1-2 Front View



1. 3.5" Floppy Diskette Drive	1. Floppy Disk Drive is the device into which you can insert the floppy disk.
2. Power switch	2. Start the computer system by pressing the power switch.
3. Power LED	3. When the system is powered on, the power LED will light on.
4. HDD LED	4. When the HDD is working, the HDD LED will keep on flashing.
5. Transmit LED	5. When the system is attached with the LAN cable, the transmit LED will start to act.

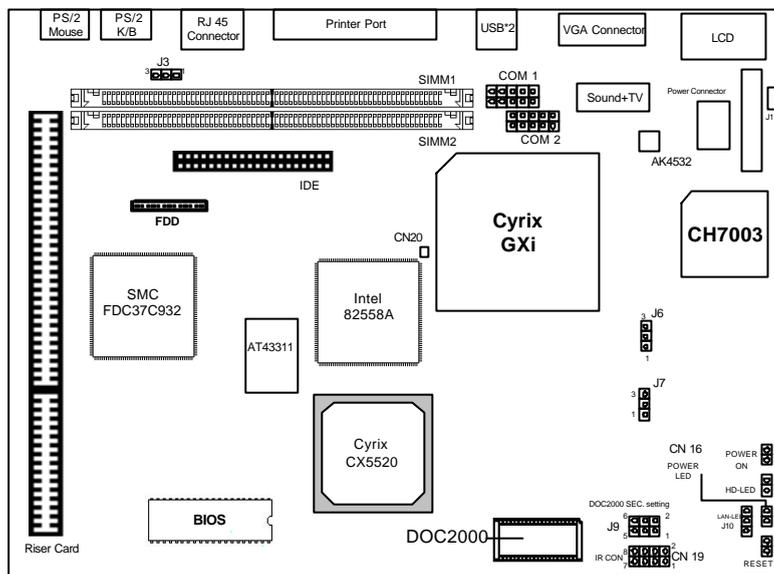
1-1-3 Rear View



Term	Definition
1. Fan	1. System cooling fan
2. AC Input	2. Connect to power cord
3. LCD Connector	3. Connect TFT LCD monitor (Option)
4. Sound Phone Jack	4. Connect to sound port
a: S connector (Option)	a. Connect to S-video input of TV
b: V connector (Option)	b. Connect to NTSC or PAL video input of TV
c: Line Out	c. Connect to speaker or audio signal input of other devices
d: Line In	d. Connect to audio signal output of other devices
e: MIC	e. Connect to microphone
5. CRT Connector	5. Connect CRT monitor
6. COM 1	6. 16550UART connect to one serial device
7. USB*2	7. Connect to USB devices
8. Expansion Card Area	8. The place to plug add-on-card
9. Parallel Port	9. Connect to devices with EPP/ECP port
10. RJ45 Connector	10. Connect to 10/100 base-T ethernet cable
11. PS/2 K/B	11. Connect PS/2 type keyboard
12. PS/2 Mouse	12. Connect PS/2 type mouse

1-2 5BLIP M/B Introduction

1-2-1 5BLIP M/B Drawing Layout



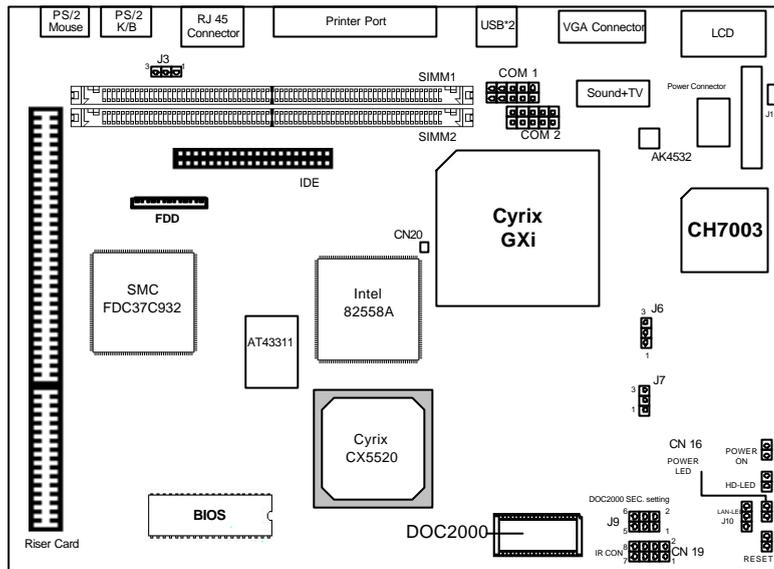
1-2-2 5BLIP Specification

- BIOS** : 2MB FLASH AWARD PnP BIOS
Flash EPROM for easy BIOS updates
PnP, PCI 2.1, APM 1.2, DMI compliant
- CPU** : CYRIX GXi 166, 180, 200 MHZ
x86 compatible with FPU
16 KB L1 cache
Virtual System Architecture
Enabling Xpress-GRAPHICS and Xpress AUDIO
- System Chipset** : CYRIX Cx5520
--South Bridge
--Support Virtual System Architecture
--2xBus Master IDE interface
--MPEG Assist
--VDACs/Display Interface
--USB interface x 2
- Memory** : 2x72PIN SIMM 5V EDO UP TO 64MB
- I/O** : SMC Ultra-I/O FD37C932(APM)
- I/O port** : PS/2 KB, PS/2 MOUSE, LPT*1, RJ45, USB*2, VGA,
TFT LCD, TWO 2*5 PIN STICK FOR SERIAL PORT
- Audio** : CYRIX VSA Xpress Audio +AKM CODEC AK-4532
--Stereo Line-In, Line-Out, Mic-In
--Interface with CD-ROM Audio line
- VGA** : CYRIX VSA Xpress-GRAPHICS
--Support 1280x1024x256 color CRT monitor
--Support VESA DDC2B / DPMS
--Support 800x600x262K color TFT LVDS display
monitor
- Video Memory** : USE SHARE MAIN MEMORY 1.25MB, 1.5MB, 2MB
- Storage Device** : 26-PIN FFC FDD (1.44MB)*1
40-PIN HDD (PRIMARY)
- LAN** : Intel 82558 10/100 Mbps
- Slot** : ONE EISA SLOT FOR RISER CARD SUPPORT ONE
PCI slot shared with one ISA slot
- TV OUT** : Chrontel CH 7003 TV Encoder provides composite
output and S-Video output

- Optional: Disk on chip socket
Optional: Smart card reader connector on comb for Bcom smart
card reader

Chapter 2 : Jumper Setting

M/B 5BLIPLayout Drawing



Jumper	Definition
J10	LANLED
CN16	Power LED
CN19	IR CON
CN20	CPU FAN POWER

	Normal	ClearCMOS
J3		

	DSTN	TFT
J6		
	LVDS 3.3V	LVDS 5V
J7		
	Open	Short
J11	Stand by 	Standard 

J9	1-2	3-4	5-6		DOC2000 base address
	OFF	OFF	OFF		OFF
	ON	OFF	OFF		C800
	OFF	ON	OFF		CC00
	ON	ON	OFF		D000
	OFF	OFF	ON		D400
	ON	OFF	ON		D800
	OFF	ON	ON		DC00
	ON	ON	ON		E000
* Please adjust the jumpers to avoid the base address conflict with other devices in your system.					

Note

Chapter 3 : Software Installation

3-1 VGA Driver for Windows 95

Cyrix MediaGX Windows 95 Drivers 1.4

Instructions:

1. Double click on the file "Cyrix MediaGX Windows 95 Drivers.exe".
2. Click the "Finish" button on the title screen that appears. This signals InstallShield to unpack the necessary files and to begin the installation process.
3. The InstallShield intro screen will appear. Click "Next" to proceed.
4. The Cyrix License agreement for this software will appear. Click "Next" to proceed.
5. The Install Directory requestor will appear. Accept the default directory or browse for another location. Click "Next" to proceed.
6. The Setup Type requestor will appear. Select "Typical", "Compact", or "Custom". "Typical" and "Compact" are identical. "Custom" allows you to select the components you would like to install. Click "Next" to proceed.
7. If you selected "Typical" or "Compact" the installation process will begin now. If you selected "Custom" you will be able to select which drivers you want to install (Audio, Video, and/or Joystick). Click on the drivers you want installed and click "Next" to proceed.
8. Due to a bug in Windows, as the installation process gets underway, a Windows requestor will come up asking for a disk labeled "Cyrix XpressGRAPHICS(TM) Windows 95 Display". Simply click "OK" on this requestor.

9. Another Windows requestor will now appear. Pull down the menu on the bottom of this requestor and select your install directory which will appear there, then click "OK". The installation will then complete.

<<NOTE>> If the install directory name is longer than 8 characters in procedure 5, it will be truncated to 8 characters in this procedure.

For example, if the directory you selected in procedure 5 is:

C:\ProgramFiles\Cyrix Corporation

It will appear as:

C:\PROGRA~1\CYRIX~1

10. Windows will probably then ask for the "Windows 95 CD-ROM" and prompt you for specific files from the CD. Insert your Windows 95 CD and click "OK". The number and type of files requested at this point will vary from system to system - just continue to point the requestor to the Windows 95 CD for any files it is looking for.
11. Click "Finish" to reboot your computer. This will complete the install process.

3-2 Sound Driver for Windows 95

1. INTRODUCTION

This file contains last-minute updates. Please read this file before proceeding with the installation.

Supported Hardware:

OPL3-SA, OPL3-SA2, OPL3-SA3, OPL4-ML(hardware wavetable)

2. INSTALLATION INSTRUCTIONS FOR OPL3-SA AND RETAIL WINDOWS 95

Note these installation instructions assume that you have correctly installed Windows 95 on your computer and that your system is able to boot and run without errors. If not, refer to the Windows 95 User Manual for instructions before continuing.

1. Click Start, and then point to Settings.
2. Click Control Panel.
3. Double-click the System icon.
4. Click the Device Manager tab, and then click the plus sign next to the Other Devices.
5. Click on the first unknown device and then click Remove.
6. Click OK to Confirm Device Removal.
7. Click on the second unknown device and then click Remove.
8. Click OK to Confirm Device Removal.
9. Click Refresh.
10. When prompted, select Driver from disk provided by hardware manufacturer.
11. Click OK.
12. Click Browse.
13. Under Drive select the drive letter containing Yamaha Audio Drivers Disk.
14. Click OK.
15. Click OK again.
16. Insert Windows* 95 CD/diskette if prompted.
17. Restart your computer to complete the installation.

3. INSTALLATION INSTRUCTIONS FOR OPL3-SA ON OEM WINDOWS 95

Use these instructions when installing the device drivers immediately after installing the Windows 95 operating system. When installed the Yamaha Sound System is classified as an Other Device.

1. During the installation of Windows 95, Windows 95 detects the audio device as Unknown Device and prompts the user that the Update Device Driver Wizard will complete the driver installation.
2. Insert the diskette containing the audio device driver.
3. Click Next.
4. Windows 95 then prompts that the Yamaha OPL3-SA Sound System has been found.
5. Click Finish.
6. Repoint to the diskette drive if necessary.
7. The gameport will also be detected and installed. If prompted by Windows 95 insert the Windows 95 CD to finish installation of the joystick driver.

4. INSTALLATION INSTRUCTIONS FOR OPL3-SA2 OR OPL3-SA3 ON RETAIL WINDOWS 95

1. From the Windows 95 desktop, click on the START button, choose SETTING and then CONTROL PANEL.
2. Double click on the SYSTEM icon and select the DEVICE MANAGER tab. If you see an entry labeled OTHER DEVICES double click on it so that this category drops down. If there is an entry called OPL3-SA2 or OPL3-SA3 SOUND CARD, highlight it and click on REMOVE.
3. Scroll down the device list and double click on SOUND, VIDEO AND GAME CONTROLLERS so that it drops down. You will then see a list of devices that have been previously installed. Select any previously installed Sound Cards and Gameports and then click on REMOVE for each one.
4. Select OK to close DEVICE MANGER and close CONTROL PANEL.
5. Insert YAMAMA driver diskette into diskette drive A or B.
6. Select START | RUN and type A:\SAUNINST.EXE and press OK to continue. (Note: B:\SAUNINST.EXE may be substituted if you are using the B drive for your installation).
7. At the first OPLSAx screen select NEXT. Click on NEXT again to continue.
8. When you see the screen "Uninstall Completed" click on FINISH.

9. Remove your diskette and click on OK to restart the computer.
10. Your computer will now restart. The first screen you will see "NEW HARDWARE FOUND" which will refer to an OPL3-SA2 or OPL3-SA3 Sound Board depending on your audio solution.
11. Insert YAMAHA driver diskette into your diskette drive.
12. Select "Driver from disk provided by hardware manufacturer" and click on OK to continue.
13. At the next screen (Install from floppy) enter either A: or B: depending on which diskette drive you are using. Then click on OK to continue.
14. Your system will begin copying files to the hard drive.
15. After the files have been copied to your hard drive, you may receive the prompt "Please insert the disk labeled Windows 95 CD-ROM and then click OK.
16. If you receive this message, place your Windows 95 CD-ROM in the CD-ROM carrier.
17. Click on OK at this point, enter D:\WIN95 (or using whatever CD-ROM driver letter is appropriate for your system) and click on OK to continue.
18. If your sound is not clear or your sound does not work properly, choose START | SHUTDOWN | RESTART YOUR COMPUTER and click on Yes. Your computer will reboot and you should hear the Windows 95 sound as the computer reboots.

5. INSTALLATION INSTRUCTIONS FOR OPL3-SA2 or OPL3-SA3
ON OEM WINDOWS 95

1. During the installation of Windows 95, Windows 95 detects the audio as OPL3-SAx Sound System and prompts the user that the Update Device Driver Wizard will complete the installation the drivers.
2. Insert the diskette containing the audio device driver.
3. Click on next.
4. Windows 95 then prompts that the Yamaha OPL3-SAx Sound System has been found.
5. Click on Finish.
6. Repoint to the diskette drive if necessary.
7. The gameport will also be detected and installed. If prompted by Windows 95 please insert the Windows 95 CD to finish installation of the joystick driver.

6. OVERINSTALL INSTRUCTIONS

If your systems has an earlier version of the Yamaha Sound system device drivers:

1. Run "SAuninst.exe" from the driver diskette.
2. When prompted restart your system and remove the driver diskette.
3. After reboot if prompted insert the driver diskette.
4. If not prompted to insert driver diskette. Check the device manager, remove any entries pertaining to Yamaha and reboot.
5. Follow the instructions on how to install the device drivers above.

7. PLAYING HARDWARE WAVETABLE OR USING OPL4-ML

If your system has a hardware wavetable card installed or the OPL4-ML installed you can enable hardware wavetable for playback of Midi files.

1. Double click on My Computer.
2. Double click on the Control Panel Applet.
3. Double click on the Multimedia Applet.
4. Click the Midi tab on the Multimedia Properties Window.
5. Highlight YAMAHA OPL3-SA MPU401.
6. Click OK.
7. Open Media Player by going into the START | PROGRAMS | ACCESSORIES | MEDIAPLAYER.
8. Once Media Player is open click on File.
9. Highlight and select Open.
10. Point to a Midi file and select it. Some Midi files are usually contained in the \Windows\Media directory.
11. You can now play Midi files using Hardware Wavetable. Click on Media Player's play button.

8. PLAYING SOFTWARE WAVETABLE

1. Click Start, point to Settings, and click Control Panel.
2. Double-click the Multimedia icon.
3. Select Yamaha OPL3SA SoftSynth and click OK.
4. Open a media player and play a MIDI file. Use the Software WT section of the mixer to control the volume and the balance of the software wavetable music.
5. Click Start, point to Settings, and click Control Panel.
6. Double-click the OPL3-SAx Config Icon and change the quality setting to improve the sound quality.

9. PLAYING SOFTWARE WAVETABLE AND WAVE FILES
SIMULTANEOUSLY

1. Click Start, point to Settings, and click Control Panel.
2. Double-click the OPL3-SAx Config Icon.
3. Set the Quality and Reverb settings.
4. Click OK.

10. USING SOFTWARE WAVETABLE IN A VIRTUAL DOS BOX
APPLICATION

1. Click Start, point to Settings, and click Control Panel.
2. Double-click the OPL3-SAx Config Icon.
3. Set the Quality and Reverb settings.
4. Set MPU401 OUT to Soft GM.
5. Click OK.
6. Setup the DOS application to use General MIDI or MPU401 at I/O Address 330.
7. Start the DOS application. The sound quality should improve as compared to normal FM synthesis.

11. Power Management Applet for Windows 95

"OPL3-SAx power management" applet is attached to the drivers Version 4.03.2320 and later.

This applet is to control OPL3-SAx power consumption and enable the power saving mode of OPL3-SAx for Windows 95.

12. LIMITATIONS

Advanced Power Management support is not available for the OPL3-SA.

13.0 COPYRIGHT/TRADEMARKS

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3-3 LAN driver installation for Windows 95

Procedure

1. Insert the disc named "TopNETExpress Tools," and make sure that you changed to the drive where the CD-ROM is.
2. Goto "ControlPanel\Add new Hardware" and find "Network adapter", and click on "Next".
3. Then click "Have Disk..." to continue the installation.
4. You can use "Browse" to look for the CD "TopNET Express Tools" Suppose that your CD-ROM drive is at D:, then the path might be D:\driver\lan\. Then click "Ok" to finish.
5. Follow the installation to complete the driver installation .

3-4 VGA driver for Windows 3.1x

1. Ensure that MS Windows 3.1 is running properly.
2. Exit Windows, and at the C: prompt, change directly to Windows by typing in CD\windows
3. At the DOS prompt, type SETUP
4. Use the arrow key to highlight the DISPLAY field and then press ENTER. A list of display drivers will appear on the screen. Use the arrow key to scroll down to the last option titled OTHER (Require disk provided by a hardware manufacture)and press ENTER.
5. Insert the VGA driver in the diskette, and press ENTER, ensuring that the correct drive is specified on the screen

3-5 Sound driver for Windows 3.1

1. Introduction

The installation program will automatically detect whether it is Windows 3.1 or Windows 95, and will proceed with the appropriate installation.

2. Software that will be installed

- 1.OPL3-SAx device driver
- 2.Application program (YSTATION)
- 3.DOS setup utility (SETUPSA)

3. Installation procedure

- 1.In Windows, start up "SETUP.EXE" which is located in the "Disk 1".
The installation program will automatically detect whether you have Windows 3.1 or Windows 95, and will proceed with the installation.
- 2.Proceed with installation as directed by the wizard.
- 3.In some cases, restarting the computer after installation may cause the OPL3-SAx setting window (SETUPSA) to appear. If this occurs, press the [ENTER] key. If there are no problems with the settings, SETUPSA will exit, and you can start up Windows. If there are problems with the settings, an error message will appear. The appropriate actions to take for each error message and the procedure for using SETUPSA are explained in the SAREADME.TXT file that was registered in the Yamaha group, so refer to this file and make the appropriate settings.

4. Uninstall procedure

- 1.In the "YAMAHA group" of the "Program manager" double-click the "OPL3-SAx uninstall" icon.
- 2.When you restart the computer, the condition previous to installation will be restored.

3-6 LAN driver for Windows 3.1

Windows 3.1 LAN Installation

Procedure

1. Insert the disc, and make sure that you changed to the drive where your CD-ROM is.
2. Then you can find there is a batch file under “D:\driver\lan\readme.bat” So, you can type “readme” under the prompt of where you can find the CD-ROM.—>eg., D:\> Suppose that your CD-ROM is at drive D.
3. After executing readme.bat file, you can see some words on the screen: type setup or setup/readme for your needs. You can type “setup/readme” to read the detailed information for the lan installation.
4. Type “setup/readme” and “ENTER”.
5. You can see a window appear, and there are 5 items for you to choose. Please choose the first item “Installing EtherExpress(TM) PRO/100B adapter drivers” and then “ENTER”.
6. Then, there are 3 items for the choice.
 1. Novell network drivers
 2. Microsoft network drivers
 3. IBM, Banyan, LANtastic and other network drivers.

Choose one of them to get more detailed information for your lan installation.

3-7 VGA driver for Windows NT

1. Run the Windows NT Display program located in the Control Panel, under "Settings" in the Start menu. Alternatively, position the cursor on the background of the desktop, click the right mouse button, and then select "Properties" from the popup menu.
2. Select the "Settings" page.
3. Select "Display Type...".
4. Select "Change..." from the display options.
5. Select "Have Disk..."
6. NT will prompt you for the correct path, enter A:\Win95 where A: is the drive containing the Cyrix Driver Disk. A list of Cyrix graphics accelerators will be displayed. Select the one you are using, then click on the "OK" button. Windows NT will once again prompt for confirmation. All appropriate files are then copied to the hard disk..
7. Restart Windows NT. Windows NT will start up using the Cyrix VGA drivers.
8. NT will boot into a default mode and start the Display applet allowing for mode selection.

3-8 Sound driver for Windows NT

Windows NT4.0 Sound Driver Installation

Procedure

1. Move the mouse to the “Start” button, one click on it, move to the “Settings”, and then click on “Control Panel”.
2. Find “Multimedia” icon and double click on it. You will see a window “Multimedia Properties” appears.
3. Move to the “Devices” tab. Then you can find “Add” button to upgrade the driver. Click “Ok” to continue.
4. A small window appears to ask you to specify the correct path where the driver you want to install.
5. If you do not know the correct path, please use “Browse” button.
6. You can specify the path at “D:\driver\sound\nt40”. Then click on “Ok” to continue to follow the direction.
7. You can see there are many languages listed on the screen. Please choose one of the language you want.
8. Finally, you will be asked to restart your computer to finish the Windows NT sound installation.

3-9 LAN driver for Windows NT

Procedure

1. Insert the disc, and make sure that you changed to the drive where you can find the CD-ROM.
2. Then you can find there is a batch file under "D:\driver\lan\readme.bat." So, you can type "readme" under the prompt D->eg., D:\driver\lan\readme (assume that drive D is where you can find the CD-ROM.)
3. After executing readme.bat file, you can see some words on the screen: type setup or setup/readme for your needs. You can type "setup/readme" to read the detailed information for the lan installation.
4. Type "setup/readme" and "ENTER".
5. You can see a window appear, and there are 5 items for you to choose. Please choose the first item "Installing EtherExpress(TM)PRO/100B adapter drivers" and then "ENTER".
6. There are 3 items for the choice.
 - 1.) Novell network drivers
 - 2.) Microsoft network drivers
 - 3.) IBM, Banyan, LANtastic and other network drivers.

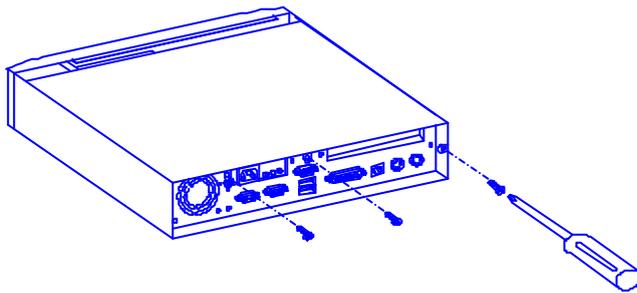
Choose one of them to get more detailed information for your lan installation.

Chapter 4: Hardware Installation

4-1 Removing Cover

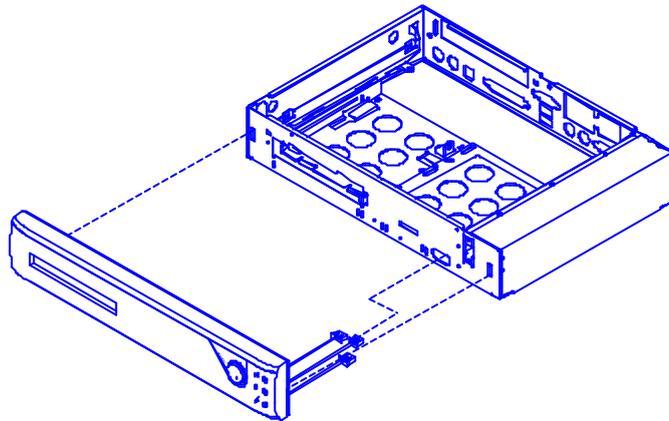
The first step in expanding the System is to remove the system unit housing cover. To remove the system unit housing cover, and do the following:

1. Make sure that the system unit and all peripheral devices connected to it are powered off.
2. Remove all cables and unplug the unit from the wall socket. (You may wish to mark each cable so that it can be reconnected properly when you are through.)
3. Remove the screws that hold the cover to the chassis. (Keep all screws in a safe place. You will need when reinstalling.)
4. Slide the cover toward the rear to release it from the front panel, please refer to the figure next.



4-2 HDD & FDD Installation

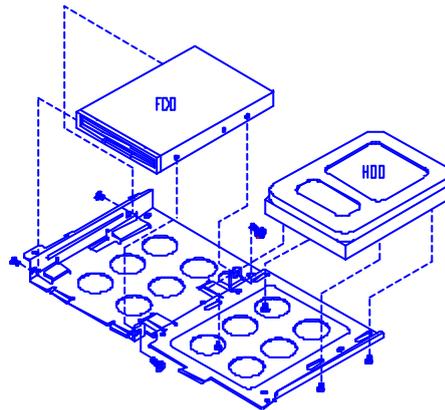
1. Remove the front cover and FDD cover, as shown in the figure next



2. Slide the HDD/FDD bracket toward the rear panel and lift it up

3. **Mount the 3.5" Floppy Disk Drive first** with four screws, as shown in the figure next.

4. **Mount the Hard Disk Drive** with four screws, notice that the screws are on the bottom, please refer to the figure next

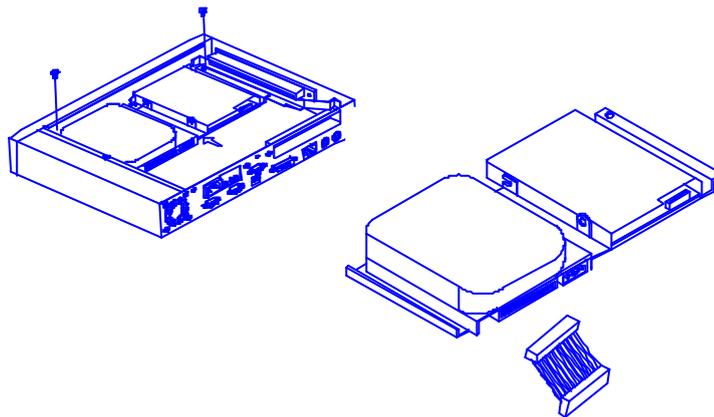


5. Fit the bracket into the chassis

- 1) Connect the signal cable to HDD & FDD (the FDD connector has latched on the top, pull the latch first, plug in the cable, and then press the latch back. Make sure the cable's gold finger is against the metal side of the connector)
- 2) Plug the other head of the signal cable onto the mainboard (Make sure the HDD edge connector is fit in the pin connector)
- 3) Attach the power cable to HDD & (FDD gets power from signal cable)
- 4) Slide the bracket into the chassis. First, move the FDD front panel toward the FDD hole; second, clear off the wire the power supply to prevent sticking under the bracket; third, press the bracket down then slide in)
- 5) Lock bracket with two screws as shown in the figures next

PS:

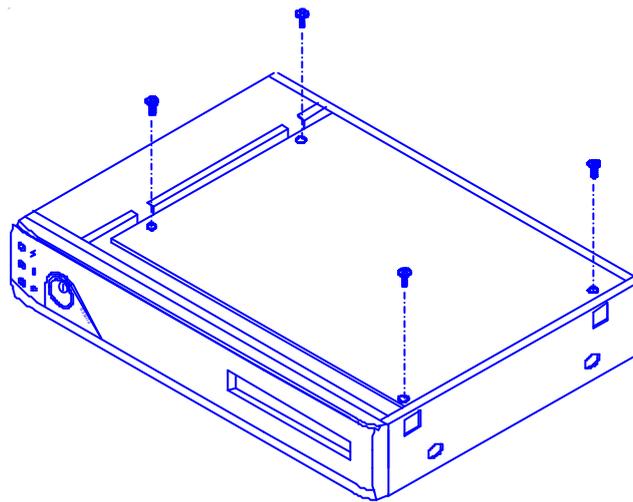
1. Remove FDD block plate, disclose the front panel of the chassis
2. If HDD or FDD cable installation did not follow the instruction, you may damage the peripheral of 5BLCP
3. Do not plug in the power cord into the 5BLCP before finish assembling



4-3 Setting Up Mainboard

Up side down the 5BLCP, remove the four screws to unlock the M/B PCB, as you can see figure next.

After you unlock the mainboard, you can change the default setting for CPU type, CPU clock, CPU voltage or memory configuration..., etc.



Chapter 5 : Award BIOS

