

## Chapter 4

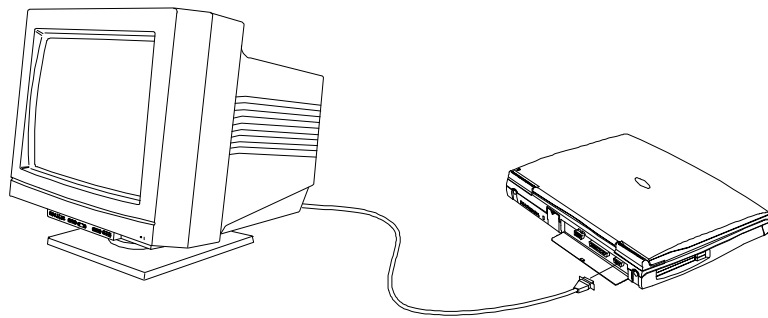
### Options

Your notebook offers excellent expansion capabilities with its built-in ports and connectors. This chapter describes how to connect peripherals and hardware options that help you use your notebook computer with ease. When connecting peripherals, read the manual included with the peripheral for operating instructions.

This chapter also includes sections on how to upgrade key components. Key component upgradeability guards your notebook from becoming obsolete.

## 4.1 External Monitor


To show graphical effects on a larger display, open the port cover and connect an external monitor to the CRT port (🖥️). Read the monitor manual for additional instructions.

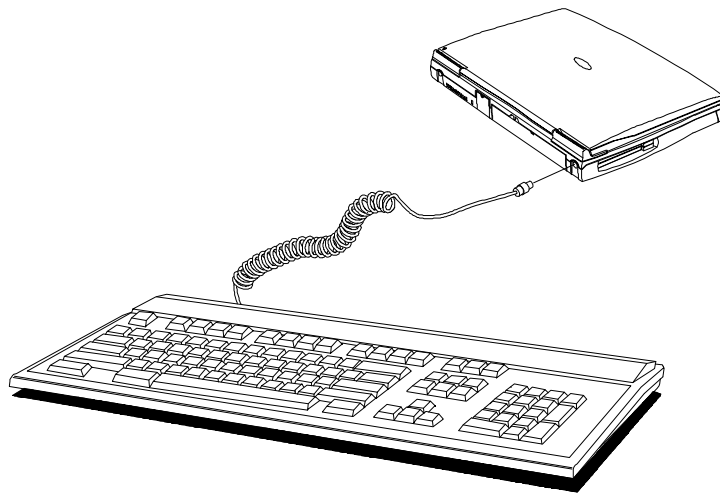


*Figure 4-1 Connecting an External Monitor*

## 4.2 External Keyboard


This notebook has a keyboard with full-sized keys and an embedded keypad. If you feel more comfortable using a desktop keyboard, you can install a PS/2-compatible external keyboard.

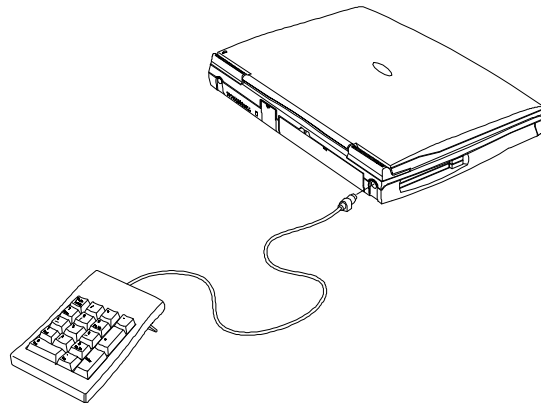
To connect an external keyboard, plug the external keyboard into the PS/2 connector (  ).



*Figure 4-2 Connecting an External Keyboard*

## 4.3 External Keypad

You can also use a 17-key numeric keypad for number-sensitive data entry applications. To connect the keypad, plug in the keypad connector to the PS/2 port (  ) at the rear of the notebook.

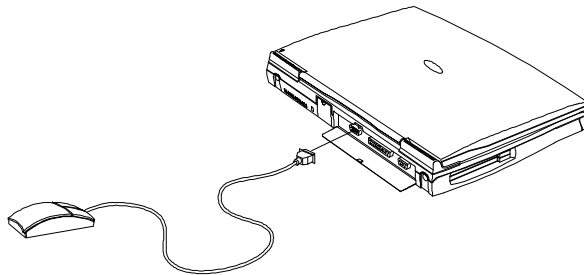


*Figure 4-3 Connecting an External Keypad*

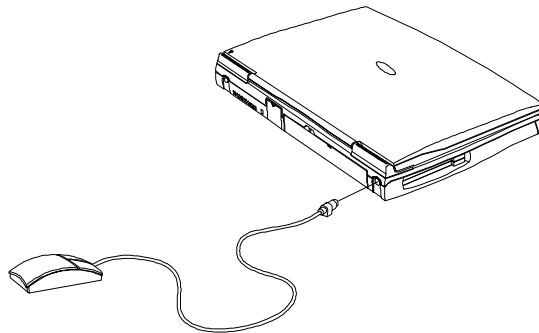
## 4.4 External Pointing Device

This notebook accepts either a serial mouse or PS/2-compatible mouse or similar pointing device. The built-in touchpad works simultaneously with an external PS/2 mouse.

If you use a serial mouse, open the port cover and plug it into the serial port (□□□□). If you use a PS/2-compatible mouse, plug it into the PS/2 port (⌂ □□□□).



(a) Serial Mouse



(b) PS/2 Mouse

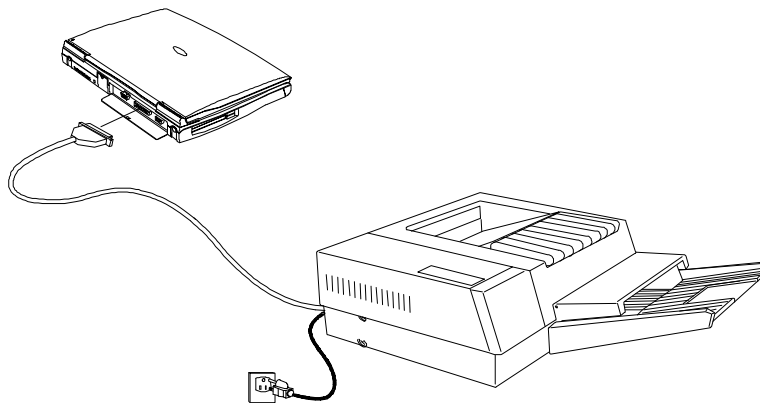
Figure 4-4 Connecting an External Pointing Device

## 4.5 Printer

This notebook supports both serial and parallel printers. For a serial printer, plug the printer cable into a serial port (ⓂⓂⓂⓂ). For a parallel printer, open the port cover and plug the printer cable into the parallel port (ⓂⓂ). See your printer manual for operating instructions.



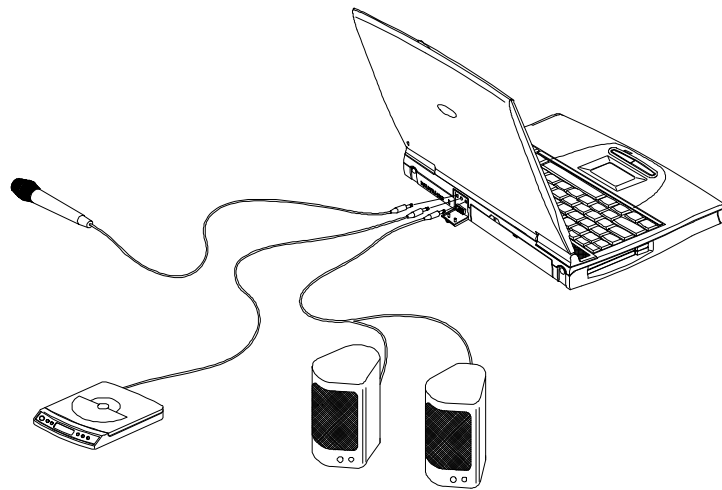
*If the printer does not function, enter Setup and see to it that the parallel port is enabled. Refer to section 6.5.5 for assistance.*



*Figure 4-5 Connecting a Parallel Printer*

## 4.6 Audio Devices

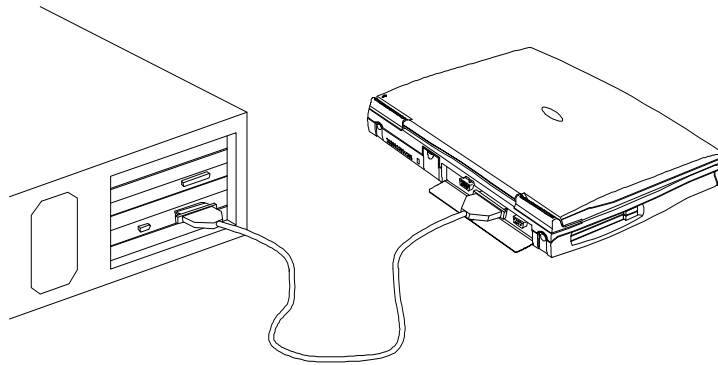
To connect audio devices, open the mini port cover and plug in an external microphone, a line-in device and amplified speakers or headphones to the microphone-in, line-in and line-out ports, respectively.



*Figure 4-6 Connecting Audio Devices*

## 4.7 File Transfer Cable

You can use the file transfer cable to transfer data between the notebook and other computers. Connect the file transfer cable between the two computers and use your file transfer utility to perform the transfer. See Chapter 5 for details on how to use the software.



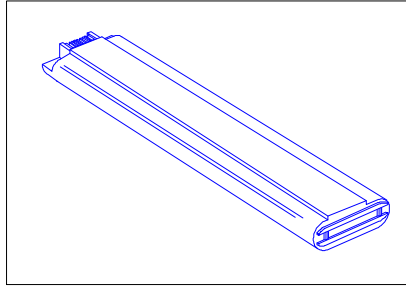
*Figure 4-7 Using the File Transfer Cable*



## 4.8 Additional Power Packs

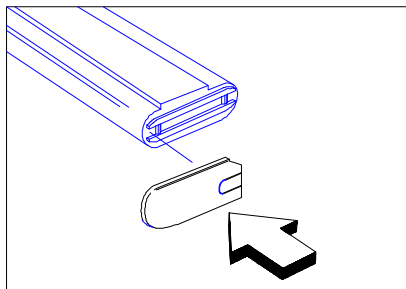
You can order spare batteries, AC adapter, and an external battery charger.

### 4.8.1 Battery Pack

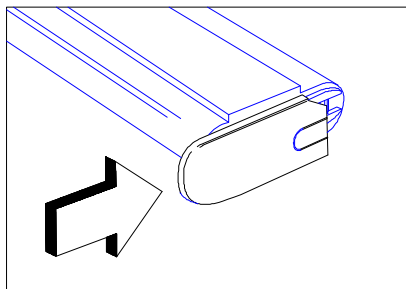


It is good practice to have a spare battery around, especially when you travel. The NiMH and Li-Ion smart batteries, coupled with power management features, supply you with more power on-the-go.

#### Attaching the Battery Compartment Cover

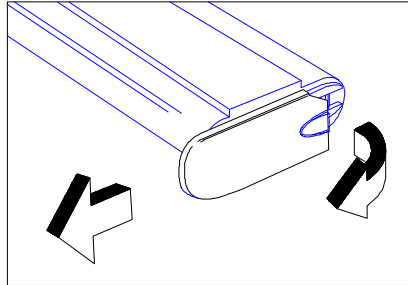


1. Position the battery compartment cover over the battery pack.



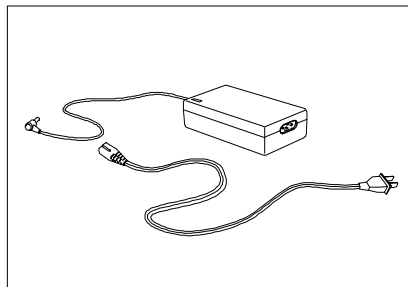
2. Using a little force, slide the battery compartment cover over the battery until both the cover and the battery are firmly attached. See figure on the left.

### Detaching the Battery Compartment Cover



Slightly pull up the battery compartment cover release latch and slide out the cover.

### 4.8.2 AC Adapter



The compact AC adapter charges your battery pack and supplies power to your notebook.

### 4.8.3 External Battery Charger

The external battery charger allows you to fully recharge your NiMH and/or Li-Ion battery packs in a shorter period of time. It also automatically discharges the battery pack before charging for optimum recharge efficiency.

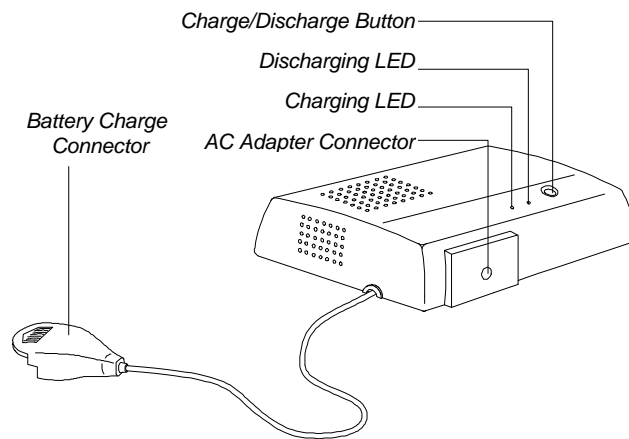
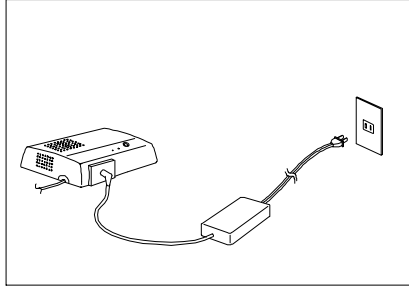


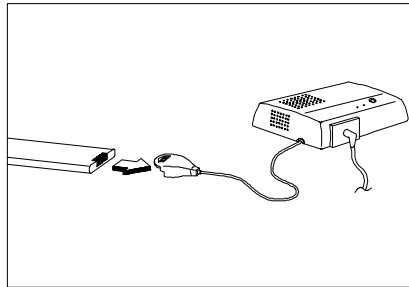
Figure 4-8 External Battery Charger

## Using the External Battery Charger

Follow these steps:



1. Plug the AC adapter into a power outlet.
2. Connect the AC adapter to the external battery charger.



3. Attach the battery pack to the battery charge connector.

The charging LED lights up. The external battery charger automatically turns off after fully recharging the battery pack.

## 4.9 Key Component Upgrades

The notebook delivers superior power and performance. However, some users and the applications they use may demand more. This notebook allows you to upgrade your key components when you need increased performance.



*Contact your authorized dealer if you decide to perform a key component upgrade.*

### 4.9.1 Memory Upgrade

Memory is upgradeable from 8 to 64 MB, employing 8-/16-/32-MB<sup>1</sup> 64-bit SO DIMMs (Small Outline Dual Inline Memory Modules). The following table lists all possible memory configurations.

*Table 4-1 Memory Configurations*

Slot 1	Slot 2	Total Memory
8 MB	0 MB	8 MB
0 MB	8 MB	8 MB
8 MB	8 MB	16 MB
16 MB	0 MB	16 MB
0 MB	16 MB	16 MB
16 MB	8 MB	24 MB
8 MB	16 MB	24 MB
16 MB	16 MB	32 MB
32 MB	0 MB	32 MB
0 MB	32 MB	32 MB
32 MB	8 MB	40 MB

<sup>1</sup> You can upgrade memory using 32-MB DIMMs when these become available. Consult your dealer.

*Table 4-1 Memory Configurations (continued)*

Slot 1	Slot 2	Total Memory
8 MB	32 MB	40 MB
32 MB	16 MB	48 MB
16 MB	32 MB	48 MB
32 MB	32 MB	64 MB

After installing the memory modules, the system automatically detects and reconfigures the total memory size during the POST routines.

## 4.9.2 Hard Disk Upgrade

You can upgrade your hard disk with a higher capacity drive when you need more storage space. The notebook uses a 12.5mm, 2.5-inch Enhanced-IDE hard disk that is auto-detected or user-defined. The following table shows the available, supported hard disks.

*Table 4-2 Hard Disk List*

Vendor	Model	Capacity
Hitachi	DK223A-81	810 MB
Seagate	ST9810AG	810 MB
Toshiba	MK1301MAV	1.3 GB

Use the blank spaces to record additional hard disks that will be available in the future.

## 4.9.3 CPU Upgrade

The CPU (central processing unit) of the notebook is upgradeable, allowing you to take advantage of supported, higher-performance CPUs.

