Extensa 700/710 Series Notebook Computer

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Extensa 700/710 Series Notebook Computer User's Guide

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Changes may be made periodically to the information in this publication. Such changes will be incorporated in new editions of this manual.

Record the serial number, purchase date, and model number in the space provided below. The serial number and model number are recorded on the label affixed to the case. All correspondence concerning your unit should include the serial number, model number, and date of purchase.

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Extensa Notebook Computer

Model	Serial No.	Purchase Date

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FCC Notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna
- **2.** Increase the separation between the device and receiver
- **3.** Connect the device into an outlet on a circuit different from that to which the receiver is connected
- **4.** Consult the dealer or an experienced radio/television technician for help

Notice: Shield Cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Notice: Peripheral Devices

Only peripherals (input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this computer.

Use Conditions

This part complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian Users

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B respected toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Important Safety Instructions

- Read these instructions carefully. Save these instructions for future reference.
- **2.** Follow all warnings and instructions marked on the product.
- **3.** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use this product near water.
- **5.** Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 6. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- 7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- **8.** Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- 9. If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.

- 10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 11.Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
- **12.**Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed
 - **b.** If liquid has been spilled into the product
 - c. If the product has been exposed to rain or water
 - d. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.
 - **e.** If the product has been dropped or the cabinet has been damaged
 - **f.** If the product exhibits a distinct change in performance, indicating a need for service.
- 13. Replace the battery with the same type as the product's battery we recommend. Use of another battery may present a risk of fire or explosion. Refer battery replacement to a qualified serviceman.
- 14. Warning! Batteries may explode if not handled properly. Do not disassemble or dispose of them in fire. Keep them away from children and dispose of used batteries promptly.

15.Use only the proper type of power supply cord set (provided in your accessories box) for this unit. It should be a detachable type: UL listed/CSA certified, type SPT-2, rated 7A 125V minimum, VDE approved or its equivalent. Maximum length is 15 feet (4.6 meters).

Laser Compliance Statement

The CD-ROM drive in this computer is a laser product. The CD-ROM drive's classification label (shown below) is located on the drive.

CLASS 1 LASER PRODUCT

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

APPAREIL A LASER DE CLASSE 1 PRODUIT LASERATTENTION: RADIATION DU FAISCEAU LASER INVISIBLE EN CAS D'OUVERTURE. EVITTER TOUTE EXPOSITION AUX RAYONS.

LUOKAN 1 LASERLAITE LASER KLASSE 1 VORSICHT: UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHLL AUSSETZEN

PRODUCTO LÁSER DE LA CLASE I **ADVERTENCIA:** RADIACIÓN LÁSER INVISIBLE AL SER ABIERTO. EVITE EXPONERSE A LOS RAYOS.

ADVARSEL: LASERSTRÅLING VEDÅBNING SE IKKE IND I STRÅLEN.

VARO! LAVATTAESSA OLET ALTTINA LASERSÅTEILYLLE. **VARNING:** LASERSTRÅLNING NÅR DENNA DEL ÅR ÖPPNAD ÅLÅ TUIJOTA SÅTEESEENSTIRRA EJ IN I STRÅLEN

VARNING: LASERSTRÅLNING NAR DENNA DEL ÅR ÖPPNADSTIRRA EJ IN I STRÅLEN

ADVARSEL: LASERSTRÅLING NAR DEKSEL ÅPNESSTIRR IKKE INN I STRÅLEN

Lithium Battery Statement

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Léver det brugte batteri tilbage til leverandøren.

ADVARSEL

Eksplosjonsfare ved feilaktig skifte av batteri. Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

VARNING

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

VAROITUS

Päristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

VORSICHT!

Explosionsgefahr bei unsachgemäßen Austausch der Batterie Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

This manual describes features of the Extensa 700/710 Series notebook computers. The Extensa series computers incorporate such features as CardBus, PCI-based 16-bit stereo audio, Fast Infrared, internal pointing device, Universal Serial Bus, and all-in-one media storage.

This manual should answer most of the questions you have about the day-to-day operation of your Extensa notebook computer.

Use the Just for Starters... instructions that came with your computer to get your computer running for the first time.

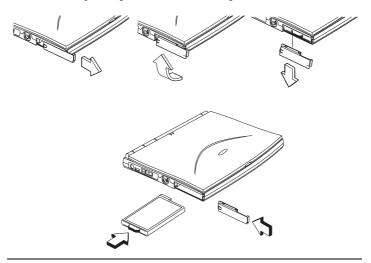
You should also take advantage of the online help files that are available with almost all of the programs shipped with your computer.

We hope you enjoy your Extensa computer. With proper care, your computer will provide you with years of productive service.

Connecting the Computer

Connecting the computer is as easy as 1-2-3.

1. Slide out the battery compartment cover and insert the battery pack into the battery compartment. Then slide the battery compartment cover in place.

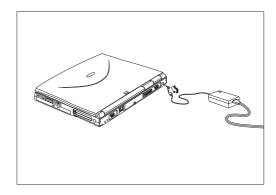




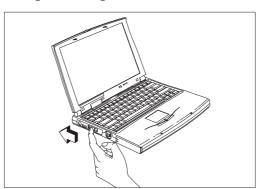
Note: When using a battery pack for the first time, fully recharge the battery, then disconnect the adapter to use up the battery before recharging again. You only need to do this once with a new battery.

The battery pack has a pull loop at the end for easy removal.

2. Connect one end of the AC adapter to the DC-in port on the computer's rear panel and the other end to a properly grounded power outlet.



3. Slide the display cover latch to the left to open the display. Slide the power switch towards the rear of the computer then release it to turn on the power. The POST (Power On Self-Test) routine executes and Windows begins loading.





Note: To turn off the power, press the power switch for more than four seconds. If you are using Windows 95 or a higher version operating system, we recommend that you use the Shutdown command to turn off the computer. If you turn off the computer and want to turn it on again, wait at least two seconds before powering up.

Getting Help Online

This user's guide provides clear and concise information about the computer, so read it thoroughly. To provide you with help when traveling, the computer also has a comprehensive online help.

Accessing Online Help

Follow these steps to access the online documentation:

- 1. Press the Windows logo button or Click on the Start button.
- 2. Select Programs.
- 3. Click on Extensa Online.

The online help is easy to navigate with hypertext and hypergraphics. Clear illustrations help describe notebook operation as well.

Getting Online

If you are connected to the Internet and have World Wide Web access, visit our home page (http://www.acer.com/) and get the latest information about our products.

Support Information

Your computer is backed by an International Traveler's Warranty (ITW) that gives you security and peace of mind when traveling. Our worldwide network of service centers are there to give you a helping hand.

An ITW passport comes with your computer. This passport contains all you need to know about the ITW program. A list of available, authorized service centers are in this handy booklet. Read this passport thoroughly.



Note: Always have your ITW passport on hand, especially when you travel to receive the benefits from our support centers. Place your proof-of-purchase in the flap located inside the front cover of the ITW passport.

If the country you are traveling in does not have an Acerauthorized ITW service site, you can still get in contact with our offices worldwide.

For technical assistance and support in the United States and Canada, you can call 1-800-816-2237. You can also contact a local dealer or distributor in the country you are traveling in for assistance.

To view support information, follow these steps:

- 1. Click on Start, Settings..., Control Panel.
- 2. Double-click on System.
- 3. Click on Support Information.



Note: If you are connected to the Internet and have World Wide Web access, visit our home page (http://www.acer.com/) and get an updated list of our worldwide offices, as well as information about our products.

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Care and Maintenance

Taking Care of Your Computer

Yo	our computer will serve you well if you take care of it.
	Do not expose the computer to direct sunlight. Do not place near sources of heat, such as a radiator.
	Do not expose the computer to temperatures below 0° C (32°F) or above 50° C (122°F).
	Do not subject the computer to magnetic fields.
	Do not expose the computer to rain or moisture.
	Do not spill water or any liquid on the computer.
	Do not subject the computer to heavy shock and vibration.
	Do not expose the computer to dust and dirt.
	Never place objects on top of the computer to avoid damaging the computer.
	Never place the computer on uneven surfaces.
Taking Ca	are of your AC Adapter
Не	ere are some ways to take care of your AC adapter:
	Do not connect the adapter to any other device.
	Do not step on the power cord or place heavy objects on top of it. Carefully route the power cord and any cables away from personal traffic.
	When unplugging the power cord, do not pull on the cord itself but pull on the plug.

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	The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension cord. Also, the total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.
Taking Ca	are of your Battery Pack
Не	re are some ways to take care of your battery pack:
	Use only batteries of the same kind as replacements. Turn the power off before removing or replacing batteries.
	Do not tamper with batteries. Keep them away from children.
	Dispose of used batteries according to local regulations. Recycle if at all possible.
Cleaning	and Servicing
Wł	nen cleaning the computer, follow these steps:
1.	Power off the computer and remove the battery pack.
2.	Disconnect the AC adapter.
3.	Use a soft cloth moistened with water. Do not use liquid or aerosol cleaners. $$
	intact your dealer or see your service technician if any of e following occurs:
	The computer has been dropped or the body has been damaged.
	Liquid has been spilled into the product.
	The computer does not operate normally.

Getting Familiar with your Computer

This computer combines high-performance, versatility, power management features and multimedia capabilities with a unique style and ergonomic design. Work with unmatched productivity and reliability with your new power computing partner.

This chapter gives an in-depth "tour" of the computer's many features.

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Features

This computer was designed with the user in mind. Here are just a few of its many features:

Pe	rformance
	Intel Pentium® II processor or Intel Pentium® processor with $MMX^{\rm IM}$ technology
	64-bit main memory and external (L2) cache memory
	Large LCD display and PCI local bus video with 128-bit graphics acceleration
	Internal removable CD-ROM drive (media bay)
	Internal 3.5-inch floppy drive
	High-capacity, Enhanced-IDE removable hard disk
	Lithium-Ion battery pack
	Heuristic power management system with standby and hibernation power saving modes
М	ultimedia
	PCI-based 16-bit high-fidelity stereo audio with 3-D sound and wavetable synthesizer
	Built-in dual speakers
	S-video output
	Ultra-slim, high-speed CD-ROM drive
Co	onnectivity
	High-speed fax/data modem port
	Fast infrared wireless communication
	USB (Universal Serial Bus) port

Features

Hu	ıman-centric Design and Ergonomics
	Lightweight and slim
	Sleek, smooth and stylish design
	Full-sized keyboard
	Wide and curved palm rest
	Ergonomically-centered touchpad pointing device
Ex	pansion
	CardBus PC card (formerly PCMCIA) slots (two type II/I or one type III) with ZV (Zoomed Video) port support
	Mini docking station option for one-step connect/disconnect from peripherals
	Upgradeable memory and hard disk

Display

Display

The large graphics display offers excellent viewing, display quality and desktop performance graphics. The computer supports two different display configurations — Super Clear Color (SCC) or Thin-Film Transistor (TFT).

Video Performance

PCI local bus video with 128-bit graphics acceleration and 2MB Extended Data Out (EDO) video RAM boost video performance.

Simultaneous Display

The computer's large display and multimedia capabilities are great for giving presentations. If you prefer, you can also connect an external monitor when giving presentations. This computer supports simultaneous LCD and CRT display. Simultaneous display allows you to control the presentation from your computer and at the same time face your audience. With the built-in S-video output jack, you can even connect other output display devices such as LCD projection panels for large-audience presentations.

Power Management

The power management system incorporates an "automatic LCD dim" feature that automatically decides the best settings for your display and at the same time conserves power. See "Heuristic Power Management" on page 39 for more information on power management features.

Display

Opening and Closing the Display

To open the display, slide the display cover latch to the left and lift up the cover. Then tilt it to a comfortable viewing position. The computer employs a microswitch that turns off the display (and enters standby mode) to conserve power when you close the display cover, and turns it back on when you open the display cover.



Note: If an external monitor is connected, the computer turns off the display (but does not enter standby mode) when you close the display cover.

To close the display cover, fold it down gently until the display cover latch clicks into place.

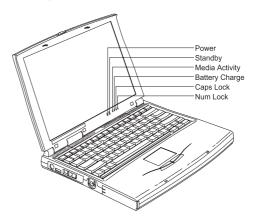


Caution: To avoid damaging the display, do not slam it when you close it. Also, do not place any object on top of the computer when the display is closed.

Indicators

Indicators

The computer has six easy-to-read status indicators (LEDs) under the display screen.



The Power and Standby indicators are visible even when you close the display cover so you can see the status of the computer while the cover is closed.

Icon	Function	Description
Ş	Power	Lights when the computer is on.
#	Standby	Lights when the computer enters Standby mode.
>	Media Activity	Lights when the floppy drive, hard disk or CD-ROM drive (or other media bay module) is active.
Ø	Battery Charge	Lights when the battery is being charged.

Indicators

Icon	Function	Description	
Ā	Caps Lock	Lights when Caps Lock is activated	
1	Num Lock	Lights when Numeric Lock is activated	

Keyboard

The keyboard has full-sized keys and an embedded keypad, separate cursor keys, two Windows 95 keys and twelve function keys.

Special Keys

Lock Keys



The keyboard has three lock keys which you can toggle on and off.

Lock Key	Description	
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.	
Num Lock (Fn-F11)	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.	
Scroll Lock (Fn-F12)	When Scroll Lock is on, the screen moves one line up or down when you press ↑ or ↓ respectively. Scroll Lock does not work with some applications.	

Embedded Numeric Keypad



The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Desired Access	Num Lock On	Num Lock Off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold Shift while using cursor-control keys.	Hold Fn while using cursor-control keys.
Main keyboard keys	Hold Fn while typing letters on embedded keypad.	Type the letters in a normal manner.



Note: If an external keyboard or keypad is connected to the computer, the numlock feature automatically shifts from the internal keyboard to the external keyboard or keypad.

Windows 95 Keys



The keyboard has two keys that perform Windows 95-specific functions.

Key	Description	
Windows logo key	Start button. Combinations with this key performs special functions. Below are a few examples:	
	田 + Tab (Activate next Taskbar button) 田 + E (Explore My Computer) 田 + F (Find Document) 田 + M (Minimize All) Shift + 田 + M (Undo Minimize All) 田 + R (Display Run dialog box)	
Application key	Opens the application's context menu (same as right-click).	

Hot Keys



The computer employs hot keys or key combinations to access most of the computer's controls like screen contrast and brightness, volume output and the BIOS setup utility.

Hot Key	Icon	Function	Description
Fn-F1	?	Hot key help	Displays a list of the hotkeys and their functions.
Fn-F2	©	Setup	Accesses the notebook configuration utility. See "Notebook Manager" on page 74.
Fn-F3	*	Standby	Puts the computer in Standby mode. Press any key to return. See "Standby Mode" on page 40 to learn more about Standby mode.

Hot Key	Icon	Function	Description
Fn-F4	Z	Hibernation	Puts the computer in Hibernation mode (if PHDISK, the hibernation utility, is installed, valid and enabled). Press the power switch to resume. Otherwise, the computer enters Standby mode. See "Hibernation Mode" on page 42 for more about Hibernation mode.
Fn-F5		Display toggle	Switches display output between the display screen, external monitor (if connected) and both the display screen and external monitor.
Fn-F6	₩	Screen blank	Turns the display screen backlight off to save power. Press any key to return.
Fn-F7		Touchpad on/off	Turns the internal touchpad on and off.
Fn-F8	₫/◀»	Speaker on/ off	Turns the speakers on and off; mutes the sound.
Fn-↑	0	Contrast up	Increases the screen contrast (available only for models with SCC displays).
Fn-↓	•	Contrast down	Decreases the screen contrast (available only for models with SCC displays).

Hot Key	Icon	Function	Description
Fn→	Ö	Brightness up	Increases the screen brightness.
Fn-←		Brightness down	Decreases the screen brightness.
Fn-H		Turbo mode on/off	Toggles turbo mode on and off. With turbo mode off, power management is maximized.



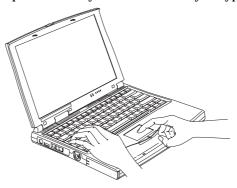
Note: If you want to use an external PS/2 mouse, first enable the touchpad, connect the external PS/2 mouse, then disable the touchpad if necessary.

Activating Hot Keys

When activating hot keys, press and hold the first key ${\bf Fn}$ before pressing the other key in the hot key combination.

Keyboard Ergonomics

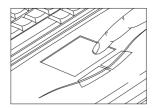
Located below the keyboard, the wide and curved palm rest is ergonomically designed to provide you with a very comfortable place to rest your hands while you type.



Touchpad

Touchpad

The built-in touchpad is a PS/2-compatible pointing device that senses movement on its surface. This means the cursor responds as you move your finger on the surface of the touchpad. The central location on the palm rest provides optimum comfort and support.





Note: When using an external mouse, you can press **Fn-F7** to disable the internal touchpad. If you want to use an external PS/2 mouse, first enable the touchpad, connect the external PS/2 mouse, then disable the touchpad if necessary.

Touchpad Basics

The following items teach you how to use the touchpad:

- Move your finger across the touchpad to move the cursor.
- ☐ Press the left and right buttons located on the edge of the touchpad to do selection and execution functions.

 These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad produces similar results.

Touchpad

Function	Left Button	Right Button	Тар
Execution	Click twice quickly		Tap twice (at the same speed as double-clicking the mouse button)
Selection	Click once		Tap once
Drag	Click and hold, then use finger to drag the cursor on the touchpad		Tap twice (at the same speed as double-clicking the mouse button) and hold finger to the touchpad on the second tap to drag the cursor
Access context menu		Click once	



Note: Keep your fingers dry and clean when using the touchpad. Also keep the touchpad dry and clean. The touchpad is sensitive to finger movements. Hence, the lighter the touch, the better the response. Tapping too hard will not increase the touchpad's responsiveness.

Storage

Storage

This computer supplies you with all-in-one media storage:

- ☐ High-capacity Enhanced-IDE hard disk
- ☐ Standard ultra-slim internal 3.5-inch floppy drive
- ☐ High-speed CD-ROM drive (swaps with other high-capacity media modules)

Hard Disk

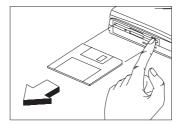
The removable hard disk module can be upgraded when you need more storage space. See "Hard Disk Upgrade" on page 61.

Floppy Drive

The ultra-slim internal floppy drive reads and writes on standard 3.5-inch diskettes.

Ejecting a Floppy Disk

Press the floppy disk eject button to eject a floppy disk from the floppy drive.



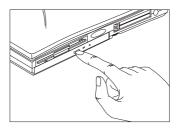
Media Bay

A high-speed CD-ROM drive module sits in the media bay on the right side of the computer. The CD-ROM drive gives you portable multimedia access.

Storage

Ejecting the CD-ROM Tray

To eject the CD-ROM drive tray when the computer is turned on, press the CD-ROM eject button.





Note: When power is off, you can eject the CD-ROM drive tray using the emergency eject hole. See page 100.

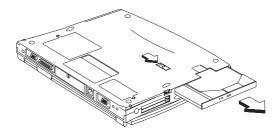
Swapping Modules

The flexible media bay allows you to swap the standard CD-ROM drive with other high-capacity media modules such as a DVD-ROM drive, an LS-120 drive or a second hard disk.

Follow these steps:

- 1. Shutdown from Windows 95 (turn the computer off).
- **2.** Locate the media bay release latch; then slide the latch towards the media bay and hold.
- **3.** Grasp the media bay release grip area and pull the module out of the media bay; then release the media bay release latch.

Storage



4. Insert a module into the media bay until it clicks in place.

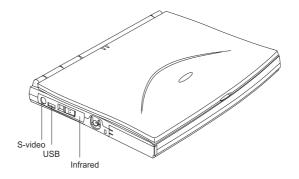
Ports

Ports allow you to connect peripheral devices to your computer as you would with a desktop PC.



Note: See Chapter 3 on how to connect external devices to the computer.

Left Ports



Icon	Port	Connects to
S-video jac		Television with S-video input jack
	Infrared port	Infrared device (e.g., infrared printer, IR-aware computers)
•	USB port	USB device (e.g., USB mouse)

Ports

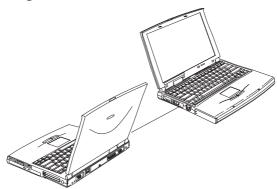
S-Video

You can connect a television set with a s-video input jack to the computer, useful for large audience presentations and entertainment.

Fast Infrared

The computer's fast infrared (FIR) port allows you to do wireless data transfer with other IR-aware computers and peripherals such as infrared printers. The infrared port can transfer data at speeds of up to four megabits per second (Mbps) at a distance of up to one meter.

To use FIR, position two IR-aware devices such that their IR ports are no more than one meter apart and offset no more than 15 degrees.

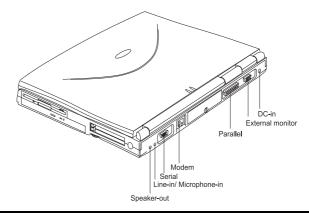


When the two computers are in position, simply begin the data transfer as you normally would. See your file transfer software for details.

Universal Serial Bus

The Universal Serial Bus (USB) port is a high-speed serial bus which allows you to connect and daisy-chain USB peripherals without taking up precious system resources.

Rear Ports



Icon	Port	Connects to		
(c [†]))	Speaker-out jack	Speakers or headphones		
((₁))	Line-in/ Microphone- in jack	Audio line-in device with a 3.5mm minijack (e.g., condenser microphone, audio CD player, stereo walkman).		
[OIO]	Serial port	Serial device (e.g., serial mouse)		
O	Modem jack	Phone line		
	Parallel port	Parallel device (e.g., parallel printer)		
	External monitor port	Display monitor (up to 1024x768 resolution, 64K-colors)		

Ports

Icon	Port	Connects to
	DC-in jack	AC adapter and power outlet

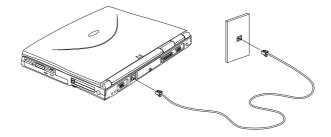
Fax/Data Modem

The computer has a built-in fax/data modem.



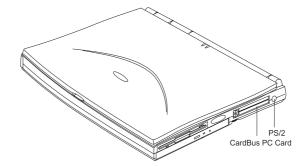
Caution: This modem port is not compatible with digital phone lines. Plugging this modem into a digital phone line will damage the modem.

To use the fax/data modem port, connect a phone cable from the modem port to a telephone jack.



Start your communications software program. See your communications manual for instructions.

Right Ports



Icon	Port	Connects to
	PC Card slots	16-bit PC Cards and 32-bit CardBus PC Cards (ZV- support)
†	PS/2 port	PS/2-compatible device (e.g., PS/ 2 keyboard/mouse/keypad).

PC Card Slots

There are two type II/I or one type III CardBus PC Card slots found on the right panel of the computer. These slots accept credit-card-sized cards that enhance the usability and expandability of the computer.

PC Cards (formerly PCMCIA) are add-on cards for portable computers, giving you expansion possibilities long afforded by desktop PCs. Popular type II cards include flash memory, SRAM, fax/data modem, LAN and SCSI cards. Common type III cards are 1.8-inch ATA drives and cellular modems. CardBus improves on the 16-bit PC card technology by expanding the bandwidth to 32 bits.

ZV (Zoomed Video) port support allows your computer to support hardware MPEG in the form of a ZV PC card.

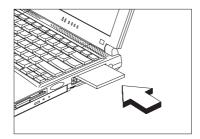
Ports



Note: Refer to your card's manual for details on how to install and use the card and its functions.

Inserting a Card

Insert the card into the desired slot and make the proper connections (e.g., network cable), if necessary. See your card manual for details.



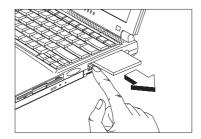
For type III cards, insert the card into the lower slot.

Ejecting a Card

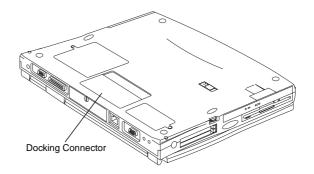
Before ejecting a PC card:

- ☐ Exit the application using the card.
- ☐ Left-click on the PC card icon on the taskbar and stop the card operation.

Then press the slot eject button to eject the card.



Bottom Port

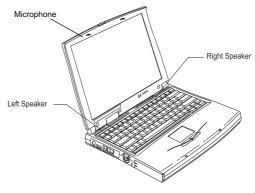


Icon	Port	Connects to
	Mini docking connector	Mini docking station

Audio

Audio

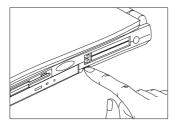
The standard computer configuration includes 16-bit high-fidelity stereo audio with further enhancements that include 3D sound for true audio immersion. Dual speakers located on each side of the display hinge direct sound towards to further enhance sound output. A sensitive microphone is located above the display screen.



Besides the built-in speakers, there are audio ports on the left panel of the computer. See "Audio Devices" on page 52 for more information on connecting external audio devices.

Controlling Volume

Controlling volume on the computer is easy with a rotary volume control knob on the right panel. Turn the knob to the right to increase the volume; turn it to the left to decrease the volume.



Securing your Computer

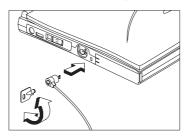
Securing your Computer

Security features include hardware and software locks — a security notch and a two-level password scheme.

Security Notch

A security notch located on the rear panel of the computer lets you connect a Kensington-compatible key-based computer security lock.

Wrap a computer security lock cable around an immovable object such as a table or locked drawer handle. Insert the lock into the notch and turn the key to secure the lock.



Passwords

A two-level password scheme protects your computer from unauthorized access. When set, no one can access the computer without entering the correct password.

There are two types of passwords you can set:

- ☐ Supervisor Password secures your computer against unauthorized use and prevents unauthorized access to certain sections of the Setup Utility. Once set, you must key-in this password to set certain parameters in the Setup Utility. See "Setup Utility" on page 83 for details.
- ☐ User Password secures your computer against unauthorized use.

Securing your Computer



Important: Do not forget your password! If you forget your password, you need to contact your dealer.

Note: You must set the supervisor password before you can set the user password.

Setting a Password

You can set the password using:

- □ Notebook Manager -- go to page 78.
- ☐ Setup Utility -- go to page 92.

Operating on Battery Power

The computer operates on AC or battery power. This chapter contains the information you need to know to operate the computer on battery power. It also includes information on how your computer manages and saves power.

Contents

Battery Pack
Battery Pack Characteristics
Installing and Removing the Battery Pack 33
Charging the Battery
Charging Modes 34
Checking the Battery Level
Using the Windows Battery Meter 35
Optimizing Battery Life
Battery-low Warning
Heuristic Power Management
Power Management Modes 40
Display Standby Mode 40
Hard Disk Standby Mode 40
Peripheral Standby Modes 40
Standby Mode 40
Hibernation Mode 42
Advanced Power Management 44

Battery Pack

The computer uses a battery pack that gives you long use between charges.

Battery Pack Characteristics

The battery pack has the following characteristics:

Employs Current Battery Technology Standards

The computer was a Lithium Lon bettery pack wh

The computer uses a Lithium-Ion battery pack which does not have the memory effect problem of Nickel Cadmium (NiCd) batteries. Li-Ion batteries consistently provide the longest battery life, best-suited for road warriors.

☐ Battery-low Warning

When the battery charge level becomes low, the computer gives off warning beeps and the status indicator flashes at regular intervals. This tells the user that the battery power is critically low. You can correct this situation by recharging the battery pack.

Whenever possible, use the AC adapter. The battery will come in handy when you travel or during a power failure. It is advisable to have an extra fully-charged battery pack available as backup.

Using a Battery Pack for the First Time

When using a battery pack for the first time, follow these steps:

- Disable the Battery Low Suspend parameter in Setup or uncheck the Enable sleep upon battery low in the Power Management screen of Notebook Manager. See page 94 and page 80 respectively.
- **2.** Connect the AC adapter to a power source and to the computer and fully recharge the battery

3. Disconnect the adapter to use up the battery before recharging again.

You only need to do this once with a new battery or with a battery that's been stored without being used for a long time. If the computer is to be stored for more than two weeks, we suggest you remove the battery pack. Battery power from a fully chaged battery pack depletes in roughly a day with the computer in Standby mode, a month in Hibernation mode or when power is off.



Warning! Do not expose battery packs to temperatures below 0°C (32°F) or above 60°C (140°F). This may adversely affect the battery pack.

Installing and Removing the Battery Pack



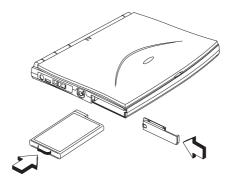
Important! Before removing the battery pack, make sure that you have an AC adapter connected to the computer; otherwise turn off the computer.

Follow these steps to install the battery pack:

1. Press the battery bay cover release button and slide out the cover as shown in the figures below.



2. Insert the battery pack into the battery bay.



3. Replace the battery bay cover.

To remove the battery pack, remove the battery bay cover; then pull out the battery pack using the pull loop.

Charging the Battery

To charge the battery, place the battery pack inside the battery bay and plug the AC adapter into the computer and an electrical outlet.

Charging Modes

The adapter has three charging modes:

□ Rapid mode

The computer uses rapid charging when power is turned off and a powered AC adapter is connected to it. In rapid mode, a fully depleted battery gets fully charged in approximately two hours.

☐ Charge-in-use mode

When the computer is in use with the AC adapter plugged in, the computer also charges the battery pack if installed. This mode will take longer to fully charge a battery than rapid mode. In charge-in-use mode, a fully depleted battery gets fully charged in approximately three to four hours.

☐ Trickle mode

When the battery is fully charged, the adapter changes to trickle mode to maintain the battery charge level. This prevents the battery from draining while the computer is in use.



Note: We suggest that you charge the battery pack before retiring for the day, letting it charge overnight before traveling. This ensures a fully charged battery for use the next day.

Checking the Battery Level

The computer features battery-low warning signals that are both audible and visible. When the battery pack is low, the computer emits warning beeps and the battery indicator flashes at regular intervals. Also, you can check the battery charge level using the Windows battery gauge.

Using the Windows Battery Meter

The Windows battery meter indicates the present battery level. Simply rest your cursor on the battery gauge (or AC plug) icon on the taskbar to see the present charge level of your battery.

Optimizing Battery Life

Op an	is section helps you get the most out of battery operation. stimizing battery life prolongs the charge/recharge cycle d improves recharge efficiency. Follow these suggestions optimize and maximize battery power:
	Purchase an extra battery pack.
	Use the PhDISK utility to reserve hard disk space for the Hibernation function. See "PhDISK" on page 73 .
	Use the AC adapter whenever possible so that the battery is reserved for on-the-go computing.
	Keep the battery pack in the computer powered by the AC adapter. The constant trickle charge maintains the battery level to eliminate the battery self-discharge effect. The charge-in-use function also charges the battery pack.
	Disable the parallel and serial ports if no devices are connected to these ports. You can do this through the Setup Utility. See "Advanced" on page 89.
	Eject the PC card from the card slot when not in use, since the PC card draws extra power.
	Store the battery pack in a cool, dry place. The recommended storage temperature for battery packs ranges from 10 to 30 degrees C. The higher the storage temperature, the faster the battery pack self-discharges.
	The batteries can be recharged about 300 times when used as directed. Excessive recharging decreases battery life.
	Take care of your battery pack and AC adapter. See "Care and Maintenance" on page xix of the preface.

Battery-low Warning

You never have to worry about battery power as long as you are using the AC adapter. However, when you operate the computer on battery power, pay extra attention to the warning beeps and the power indicator on the display panel.

The following signals indicate a battery-low condition:

- ☐ The buzzer generates four short beeps every minute, if you enabled the Battery-low Warning Beep parameter in Setup.
- ☐ The power indicator flashes at regular intervals until battery power is depleted.

When you receive a battery-low warning, you have around two minutes to save your work. If you do not connect the AC adapter within this period, the computer enters Hibernation mode if the Battery Low Suspend parameter in Setup is enabled and the following conditions exist:

- ☐ The Hibernation file created by PhDISK is present and valid. See "PhDISK" on page 73.
- ☐ There is enough battery power left to save system information onto the hard disk.

Otherwise, the computer enters Standby mode.



Warning: Connect the AC adapter to the computer as soon as possible. Data is lost when computer power is cut off during Standby mode.

The following table shows the recommended course of action to take when you encounter a battery-low condition.

Situation	Recommended Action		
AC adapter and power outlet available	 Connect the AC adapter to the computer. Save all necessary files. Resume work. Power off the computer if you wish to recharge the battery rapidly. 		
An extra fully- charged battery pack available	 Save all necessary files. Exit the application. Power off the computer. Replace the battery pack. Power on the computer and resume work. Save all necessary files. Enter Hibernation mode. Install the extra battery pack. Resume from Hibernation mode. 		
AC adapter or power outlet not available	 Save all necessary files. Exit the application. Power off the computer. Save all necessary files. Enter Hibernation mode. 		

Heuristic Power Management

This computer has a built-in heuristic power management unit that monitors system activity. System activity refers to any activity involving one or more of the following devices: keyboard, mouse, floppy drive, hard disk, peripherals connected to the serial and parallel ports, and video memory. If no activity is detected for a period of time (called an inactivity time-out), the computer stops some or all of these devices in order to conserve energy.

This computer employs an innovative power management technique called Heuristic Power Management or HPM. HPM allows the computer to provide maximum power conservation and maximum performance at the same time.

Power management methods used by most computers are timer-based. You set inactivity time-out values for the display, hard disk, and other devices. The computer then "sleeps" when these time-outs elapse. The problem with this is that no two users are alike. Each of us has his or her own habits when using the computer, which makes timer-based power management ineffective.

With HPM, your computer manages its power according to the way you use your computer. This means the computer delivers maximum power when you need it, and saves power when you don't need the maximum — all without your intervention. There are no timers to set, because the HPM system figures out everything for you.



Note: We recommend you enable heuristic power management to prolong your battery life.

Power Management Modes

Display Standby Mode

Screen activity is determined by the keyboard, the built-in touchpad, and an external PS/2 pointing device. If these devices are idle for the period determined by the computer's HPM unit, the display shuts off until you press a key or move the touchpad or external mouse.

"Automatic Dim" Feature

The computer has a unique "automatic dim" power-saving feature. When the computer is using AC power and you disconnect the AC adapter from the computer, it automatically dims the LCD backlight to save power. If you reconnect AC power to the computer, it automatically adjusts the LCD backlight to a brighter level.

Hard Disk Standby Mode

The hard disk enters standby mode when there are no disk read/write operations within the period of time determined by the HPM unit. In this state, the power supplied to the hard disk is reduced to a minimum. The hard disk returns to normal once the computer accesses it.

Peripheral Standby Modes

The peripheral connections in your computer also power down to save power if there is no activity within the period of time specified by the computer's HPM unit for these devices. These include audio, serial ports, floppy drive and parallel port.

Standby Mode

The computer consumes very low power in Standby mode. Data remain intact in the system memory until the battery is drained.

	There is one necessary condition for the computer to enter Standby mode:			
	$\hfill \Box$ Heuristic Power Management must be set to [ENABLED].			
	There are four ways to enter Standby mode:			
	☐ Pressing the Standby hot key Fn-F3			
	☐ If the waiting time determined by the computer's HPM unit elapses without any system activity			
	☐ Closing the display cover			
	☐ When the computer is about to enter Hibernation mode (e.g., during a battery low condition), but the Hibernation file is invalid or not present			
(Note: If the computer beeps but does not enter Standby mode after pressing the Standby hot key, it means the operating system will not allow the computer to enter the power-saving mode.			
	The following signals indicate that the computer is in Standby mode:			
	☐ The buzzer beeps			
	☐ The Standby indicator lights			
<u></u>	Warning: Unstored data is lost when you turn off the computer power in Standby mode or when the battery is drained.			
	To leave Standby mode and return to normal mode:			
	☐ Press any key			
	\square Move the active pointing device (internal or external, PS/2 or serial)			
	\Box Have the Resume Timer set and let it be matched			
	☐ Open the display cover			

☐ Experience an incoming PC card modem event

Hibernation Mode

In Hibernation mode, all power shuts off (the computer does not consume any power). The computer saves all system information onto the hard disk before it enters Hibernation mode. Once you turn on the power, the computer restores this information and resumes where you left off upon leaving Hibernation mode.

There are two necessary conditions for the computer to enter Hibernation mode:

The Hibern	nation file created by PhDISK must be present
and valid.	See "PhDISK" on page 73.

☐ Heuristic Power Management must be set to [ENABLED].

In this situation, there are four ways to enter Hibernation mode:

\Box	Pressing	the	Hibernation	hot	kev	Fn-l	F4
_	1 1 CSSIIIg	uic	THEFTHAUGH	1101	NC Y	T. III.	

- ☐ If the waiting time determined by the computer's HPM unit elapses without any system activity
- ☐ If a battery low condition occurs and the Battery Low Suspend parameter in Setup is set to [ENABLED].
- ☐ Invoked by the operating system power saving modes



Note: If the computer beeps but does not enter Hibernation mode after pressing the Hibernation hot key, it means the operating system will not allow the computer to enter the power-saving mode.

To exit Hibernation mode, press the power switch. The computer also resumes from Hibernation mode if the resume timer is set and matched. The computer also resumes via the network if the Wake On LAN parameter is enabled.



Warning: Do not change any devices (such as add memory or swap hard disks) when the computer is in Hibernation mode.

Advanced Power Management

This computer supports the APM standard designed to further reduce power consumption. APM is a power-management approach defined jointly by Microsoft and Intel. An increasing number of software packages support APM to take advantage of its power-saving features and allows greater system availability without degrading performance.

For more information about APM under Windows 95, refer to your Windows 95 user's manual.



Note: If you enable heuristic power management in Setup without APM installed and enabled (true by default), the system time and date do not display the correct settings after the computer returns to normal operation from Standby or Hibernation mode. To update the time and date, reboot the computer. APM should be enabled to avoid this problem. Advanced Power Management greatly prolongs battery life. Use APM whenever possible.

Peripherals and Options

Your computer 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 computer with ease. When connecting peripherals, read the manual included with the peripheral for operating instructions. You can purchase most of these and other options directly from Acer.

This chapter also includes sections on how to upgrade key components. Key component upgradeability helps keep your computer in step with the latest technology.

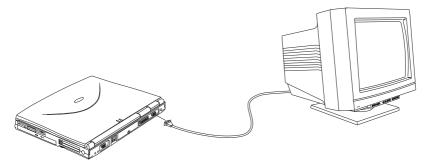
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External Monitor

External Monitor

To show graphical effects on a larger display, connect an external monitor to the CRT port. Read the monitor manual for additional instructions.





Note: If an external monitor is not connected, closing the display cover puts the computer into standby mode.

You can also choose to connect other output display devices to the computer via its S-video output jack. Useful for presentations and entertainment, you can display your computer output to a television monitor or LCD projector.

To enable the display to output to display devices with S-video, follow these steps:

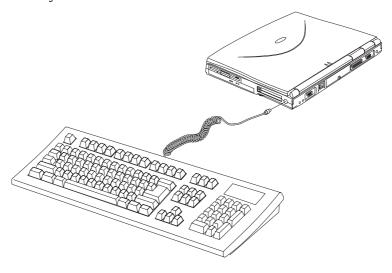
- 1. Click on Start, Settings..., then Control Panel.
- 2. Double-click on Display.
- **3.** Click on the Neomagic tab.
- 4. Click on Display Options and select TV.
- 5. Click on OK and exit.

External Keyboard

External Keyboard

This computer 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.

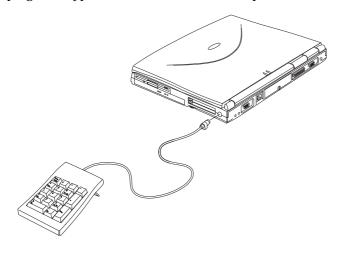
To connect an external keyboard, plug the external keyboard into the PS/2 connector.



External Keypad

External Keypad

You can also use a 17-key numeric keypad for number-sensitive data entry applications. To connect the keypad, plug the keypad connector into the PS/2 port.



External Pointing Device

External Pointing Device

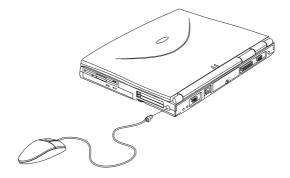
This computer accepts either a PS/2-compatible or serial mouse or similar pointing device.



Note: When using an external mouse, you may choose to disable the internal touchpad by pressing Fn-F7.

External PS/2 Mouse

The built-in touchpad works alternately with an external PS/2 mouse which is hot-pluggable. To use a PS/2-compatible mouse, simply plug it into the PS/2 port.



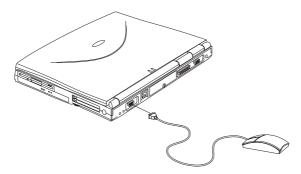


Note: Enable the touchpad before connecting the PS/2 mouse.

External Pointing Device

External Serial Mouse

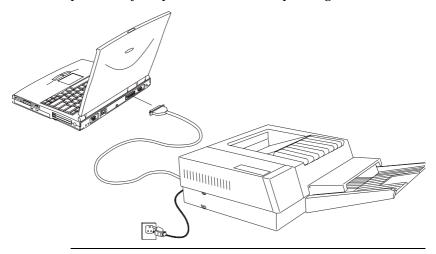
If you use a serial mouse, plug it into the serial port.



To enable the serial mouse, use the Add New Hardware tool in the Windows 95 Control Panel.

Printer

This computer supports both serial and parallel printers. For a serial printer, plug the printer cable into a serial port. For a parallel printer, plug the printer cable into the parallel port. See your printer manual for operating instructions.



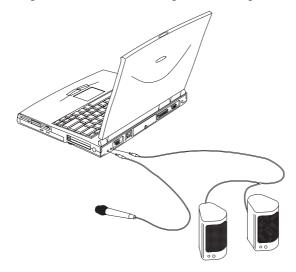


Note: If the printer does not function, enter Setup and verify that the parallel port is enabled. See "Advanced" on page 89 for assistance.

Audio Devices

Audio Devices

Audio devices are easy to connect with the audio ports accessible from the left rear side of the computer. You can plug in an external microphone or audio line-in device to the line-in/microphone-in jack. Amplified speakers or headphones connect to the speaker/headphone-out jack.



Setting the Input Source

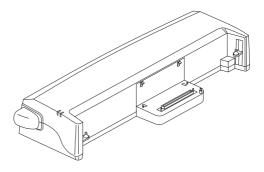
To use an external audio line-in device, you need to set the appropriate input source. Follow these steps:

- 1. Click on Start, Programs, then Notebook Manager.
- **2.** Click on the Line-in/Microphone tab.
- **3.** Click on the radio button of the desired input source.
- 4. Click on Apply and exit.

Mini Docking Station

Mini Docking Station

For one-step connection and disconnection from your peripherals, use the optional full-featured port replicator. This port replicator includes all the ports on your computer and adds a few more.



It also has a unique dock bay which accepts a CardBus module for additional CardBus slots, an Ethernet module for connecting to Ethernet-based networks, and a FireWire 1394 high-speed serial bus module.

Refer to the easy-to-use quick reference and installation guide that comes with the mini docking station option.

PC Cards

PC Cards

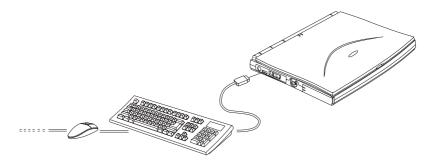
The computer has two CardBus PC card slots that accommodate two type I/II or one type III PC card(s). Please consult your dealer for PC card options available that you can purchase for your computer.

USB Devices

USB Devices

The computer has a USB (Universal Serial Bus) port that allows you to connect peripherals without occupying too many resources. Common USB devices include the mouse and keyboard.

Most USB devices also include a built-in USB port connector which allows you to daisy-chain other USB devices.



Miscellaneous Options

Miscellaneous Options

Additional Power Packs

You can order spare batteries and an AC adapter.

Battery Pack

It is good practice to have a spare battery around, especially when you travel. The Lithium-Ion battery, coupled with heuristic power management features, supplies you with more power on-the-go.

AC Adapter

The compact AC adapter charges your battery pack and supplies power to your computer. You can order a spare AC adapter so you do not need to carry it from the office to your home or destination.

Cables

PS/2 Y-Bridge Cable

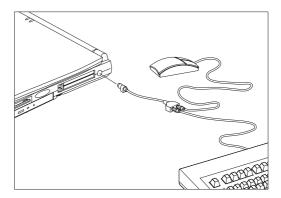
The PS/2 Y-bridge cable allows you to connect two PS/2 devices, mouse and keyboard, to your computer simultaneously.



Note: The keyboard must be connected to the connector marked keyboard and the mouse must be connected to the connector marked mouse.

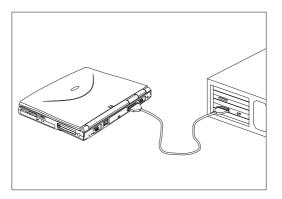
Miscellaneous Options

Connect the single connector end of the Y-bridge cable to the computer's PS/2 port and the double connector ends to the two PS/2 devices.



File Transfer Cable

Besides using the infrared port, you can also transfer files between computers using a file transfer cable. Connect the file transfer cable between the parallel ports of the two computers and use your file transfer utility to perform the transfer.



Key Component Upgrades

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



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

Memory Upgrade

Memory is upgradeable from 16 to 128 MB, employing 16-/32-/64-MB 64-bit soDIMMs (Small Outline Dual Inline Memory Modules).

Memory Configurations

The following table lists the possible memory configurations:



Important! DIMMs in both slots should be of the same type. Do not mix different DIMM types, EDO and SDRAM, together.

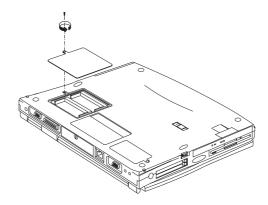
Slot 2	Total Memory		
16 MB	16 MB		
32 MB	32 MB		
64 MB	64 MB		
0 MB	16 MB		
16 MB	32 MB		
32 MB	48 MB		
	16 MB 32 MB 64 MB 0 MB 16 MB		

Slot 1	Slot 2	Total Memory
16 MB	64 MB	80 MB
32 MB	0 MB	32 MB
32 MB	16 MB	48 MB
32 MB	32 MB	64 MB
32 MB	64 MB	96 MB
64 MB	0 MB	64 MB
64 MB	16 MB	80 MB
64 MB	32 MB	96 MB
64 MB	64 MB	128 MB

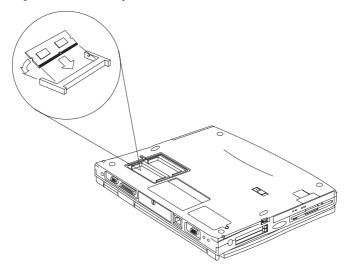
Installing Memory

Follow these steps to install memory:

- **1.** Turn off the computer, unplug the AC adapter (if connected) and remove the battery pack. Then turn the computer over to access its base.
- **2.** Remove the screw from the memory door; then lift up and remove the memory door.



- **3.** Insert the memory module diagonally into the slot, then gently press down until it clicks into place.
- **4.** Replace the memory door and secure it with the screw.



The computer automatically detects and reconfigures the total memory size.

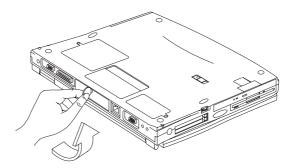
Hard Disk Upgrade

You can upgrade your hard disk with a higher capacity drive when you need more storage space. The computer uses a 12.7mm or 9.5mm 2.5-inch Enhanced-IDE hard disk.

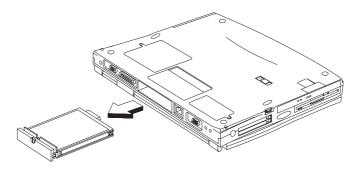
Installing a Replacement Hard Disk

Follow these steps to install a hard disk:

- 1. Turn off the computer, unplug the AC adapter (if connected) and remove the battery pack. Turn the computer around to access its rear.
- **2.** Locate the hard disk bay. Using a coin, loosen the coinscrew by turning it counterclockwise.



3. Pull out the hard disk.



4. Insert a new hard disk module into the hard disk bay and tighten the coin-screw by turning it clockwise.

Moving with your Computer

This chapter gives you tips and hints on things to consider when moving around or traveling with your computer.

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Disconnecting from the Desktop

Disconnecting from the Desktop

Follow these steps to disconnect your computer from external accessories:

- 1. Save your work in progress.
- **2.** Shut down the operating system.
- 3. Turn off the computer.
- **4.** Disconnect the cord from the AC adapter.
- **5.** Disconnect the keyboard, pointing device, printer, external monitor, and other external devices.
 - If your external devices are connected to the optional mini docking station, disconnect the notebook from the mini docking station. You do not need to disconnect the external devices from the mini docking station.
- **6.** Disconnect the Kensington lock if you are using one to secure the computer.

Moving Around

Moving Around

when you are just moving within short distances, for example, from your office desk to a meeting room

Preparing the Computer

Before moving the computer, close and latch the display cover to place it in standby mode. You can now safely take the computer anywhere you go within the building.

To bring the computer out of standby mode, open the display.

What To Bring to Short Meetings

A fully charged battery runs the computer for 2-3 hours under most circumstances. If your meeting is shorter than that, you probably do not need to bring anything with you other than the computer.

What To Bring to Long Meetings

If your meeting will last longer than 3 hours or if your battery is not fully charged, you may want to bring the AC adapter with you to plug in your computer in the meeting room.

If the meeting room does not have an electrical outlet, reduce the drain on the battery by putting the computer in standby mode. Press Fn-F3 or close the display cover whenever you are not actively using the computer. Then tap any key or open the display to resume.

Taking the Computer Home

Taking the Computer Home

when you are moving from your office to your home or vice versa

Preparing the Computer

After disconnecting the computer from your desktop, follow these steps to prepare the computer for the trip home:

- **1.** Remove all media from the drives. Failure to remove the media can damage the drive head.
- 2. Pack the computer in a protective case that can prevent the computer from sliding around and cushion it if it should fall.



Caution: Avoid packing items next to the top cover of the computer. Pressure against the top cover can damage the screen

What To Bring with You

Unless you already have some items at home,	bring	the
following items with you:	_	

- ☐ AC adapter and power cord
- ☐ The printed user's manual
- ☐ Media bay modules

Special Considerations

Follow these guidelines to protect your computer while traveling to and from work:

☐ Minimize the effect of temperature changes by keeping the computer with you.

Taking the Computer Home

- ☐ If you need to stop for an extended period of time and cannot bring the computer with you, leave the computer in the trunk of the car to avoid exposing the computer to excessive heat.
- □ Changes in temperature and humidity can cause condensation. Allow the computer to return to room temperature, and inspect the screen for condensation before turning on the computer. If the temperature change is greater than 18°F (10°C), allow the computer to come to room temperature slowly. If possible, leave the computer for 30 minutes in an environment with a temperature between outside and room temperature.

Setting Up a Home Office

If you frequently work on your computer at home, it may be worthwhile purchasing a second AC adapter for use at home. With a second AC adapter, you can avoid transporting the extra weight to and from home.

If you use your computer at home for significant periods of time, you might also want to add an external keyboard, monitor, or mouse.

Traveling with the Computer

Traveling with the Computer

when you are moving within a larger distance, for instance, from your office building to a client's office building or traveling locally

Preparing the Computer

Prepare the computer as if you were taking it home. Be sure the battery in the computer is charged. Airport security may require you to turn on your computer when bringing it into the gate area.

What To Bring with You

	AC adapter
	Spare, fully-charged battery packs
	Media bay modules
	Additional printer driver files if you plan to use another printer
Specia	Considerations
	n addition to the guidelines for taking the computer home ollow these guidelines to protect your computer while raveling:
	Always take the computer as carry-on luggage.
	Have the computer inspected by hand. Do not put the computer through a security X-ray machine or a metal detector.
	Avoid exposing floppy disks to hand-held metal detectors.

Bring the following items with you:

Traveling Internationally with the Computer

Traveling Internationally with the Computer

when you are moving from country to country

Preparing the Computer

Prepare the computer as you would normally prepare it for traveling.

What To Bring with You

Milat lo billig with loa					
	Bring the following items with you.				
	☐ AC adapter				
	☐ Power cords that are appropriate to the country to which you are traveling				
	☐ Media bay modules				
	☐ Spare, fully-charged battery packs				
	☐ Additional printer driver files if you plan to use another printer				
	☐ Proof of purchase, in case you need to show it to customs officials				
	☐ International Traveler's Warranty passport				
Special	Considerations				
	Follow the same special considerations as when traveling with the computer. In addition, these tips are useful when traveling internationally.				
	☐ When traveling in another country, check that the local AC voltage and the AC adapter power cord specifications are compatible. If not, purchase a power cord that is compatible with the local AC voltage. Do not use converter kits sold for appliances to power the computer.				

Traveling Internationally with the Computer

☐ If you are using the modem, check if the modem and connector is compatible with the telecom system of the country you are traveling in.

Software

This chapter discusses the important system utilities bundled with your computer.

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System Software

System Software

The computer comes preloaded with the following software:

- ☐ Windows 95 or later, (or Windows NT) operating system
- ☐ DMI-compliant hardware BIOS utility
- ☐ Support for LDCM (LANDesk Client Manager)
- ☐ System utilities, drivers and application software



Note: To access Windows 95 or Windows NT software applications, click on the Start button and select the application folder. Then click on the application icon to run the selected application. To learn about the software and utility, make use of the online help provided by the software.

PhDISK

The PhDISK utility allows your computer to enter hibernation mode. Before entering hibernation mode, your computer saves all necessary inforcomputermation into a file or partition created by PhDISK, then shuts off power to all system components. On the next startup, the computer reloads the information from the PhDISK file or partition and resumes from where you left off.



Note: By default, this program is automatically loaded and set up on your computer so you do not need to run this program by yourself. You only need to run this if you upgrade your memory. You can find PhDISK in the \windows\command\ directory.

The program accepts the following parameters:

Syntax

PHDISK [options]

where options:

- ☐ /CREATE (/FILE or /PARTITION) creates the hibernation file or partition
- ☐ /DELETE (/FILE or /PARTITION) deletes the hibernation file or partition
- ☐ /INFO displays information on the hibernation file or partition
- ☐ /REFORMAT PARTITION reformats the existing hibernation file or partition



Caution: The Hibernation file is a hidden file named SAVE2DSK.BIN; DO NOT delete or alter this file in any way except by using the PHDISK utility. Improper deletion or alteration of this file could cause you to lose all access to your computer.

Notebook Manager

The computer has a built-in system setup program called Notebook Manager. The Windows 95-based Notebook Manager allows you to set passwords, the startup sequence of the drives and power management settings. It also shows current hardware configurations.



Note: Certain hot key functions are disabled when you access the notebook manager, because these functions are also found in the notebook manager.

To start the Notebook Manager, press **Fn-F2** or follow these steps:

- 1. Click on Start, Programs, then Notebook Manager.
- **2.** Select the Notebook Manager application to run the program.



Note: Changes made to most settings in the Notebook Manager take effect the next time the computer restarts. If you make changes in the Power Management, Display Device and Line-in/Microphone screen, these changes take effect immediately.

Notebook Manager consists of six sections:
☐ Information Viewer
☐ Boot Sequence
☐ Password
☐ Power Management
☐ Display Device
☐ Line-in/Microphone
To select a section, click on the tab of the section you want to view.

Information Viewer

Information Viewer summarizes and lists information about the specifications and settings of the different components of your computer.





Note: Items in this table may differ slightly from the ones onscreen.

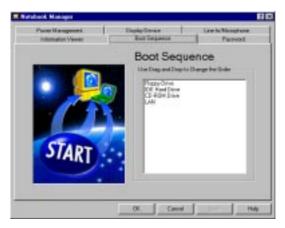
Item	Description
CPU	Brand, type and clock speed of the CPU (Central Processing Unit)
Total Memory	Total amount of main memory (in megabytes)
Video RAM	Total amount of video memory (in megabytes)
Hard Disk	Size of hard disk (in megabytes)
Serial Port 1	Resource settings of serial port 1
Serial Port 2	Resource settings of serial port 2

Item	Description				
Parallel Port	Resource settings of the parallel port				
External Total amount of external cache memory (in Cache kilobytes)					
Touchpad	Setting of the internal pointing device				
Pointing Device	Type(s) of the pointing device(s) detected, internal and external				

The current version of the computer's BIOS shows before the Device-Configuration table.

Boot Sequence

Boot Sequence defines the boot sequence to follow when your computer boots up.



The Boot Sequence screen displays the bootable devices in your computer and the order in which the booting sequence will occur. The devices include the following:

☐ Floppy Drive

- ☐ IDE Hard Drive
- ☐ CD-ROM Drive (or other bootable media bay module)
- ☐ LAN (Local Area Network)

Simply drag and drop the devices the change the booting order. Click on **Apply** to accept.

Password

Password is used to set, modify or delete the password(s) for your computer.



There are two passwords used in the system:

- ☐ Supervisor Password. The supervisor password prevents unauthorized access to sensitive parameters in the Notebook Manager and BIOS Utility. It also prevents unauthorized access to your computer at system startup and at resume from standby/hibernation mode.
- ☐ User Password. The user password prevents unauthorized access to your computer at system startup and at resume from standby/hibernation mode.

Setting the Supervisor Password



Note: Before you can set the User Password, you need to set the Supervisor Password.

To set the Supervisor Password, follow these steps:

 Click on the Change Supervisor Password button. The following dialog box displays:



- 2. Click on the Enable Supervisor Password checkbox.
- **3.** Click in the New Password textbox and type in up to seven alphanumeric characters (A-Z, a-z, 0-9) which you want to be your Supervisor Password.
- **4.** Click in the Confirm Password textbox and retype the password.
- **5.** Click on **OK** to accept.



Note: To change a password, follow the same steps used to set a password. To remove a password, follow the same steps used to set a password but leave both fields blank.

Setting the User Password

To set the User Password, follow these steps:

1. Click on the Change User Password button.



- 2. Click on the Enable User Password checkbox.
- **3.** Click in the New Password textbox and type in up to seven alphanumeric characters (A-Z, a-z, 0-9) which you want to be your User Password.
- **4.** Click in the Confirm Password textbox and retype the password.
- 5. Click on **OK** to accept.



Note: To change a password, follow the same steps used to set a password. To remove a password, follow the same steps used to set a password but leave both fields blank.

You can also set password checks when the computer boots up and/or when the computer resumes from standby/hibernation mode. Simply click on the desired checkbox(es) and click on **Apply**.

Power Management

Power Management is used to set various settings related to power management.



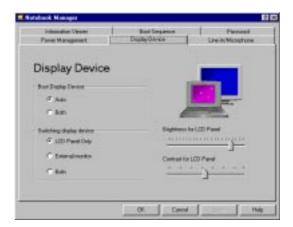
This includes the following power-saving-related features:

- ☐ Enable Heuristic Power Management. Select to enable heuristic power management. See "Power Management Modes" on page 40 for more information on heuristic power management.
- ☐ Enabled display always on. Select to leave your display always turned on, useful when you need to make presentations on your computer.
- ☐ Enable modem ring resume on indicator. Select to allow the computer to wake-up from standby mode when an incoming modem ring is detected.
- ☐ Enable battery low warning beep. Select to allow the computer to give off warning beeps when the computer runs low on battery.
- ☐ Enable sleep upon battery low. Select to allow the computer to enter standby or hibernation mode when the computer runs low on battery.

- ☐ Enable system resume timer. Select to allow the computer to wake-up from standby mode if the resume timer is set and matched.
- ☐ System Resume Timer. (When Enable system resume timer is selected) click on the button to set the System Resume Timer.

Display Device

Display Device is used to control various settings related to display device(s), such as the display brightness/contrast levels.



The items in this screen include:

- ☐ Boot Display Device. Sets the default display device on boot-up.
- ☐ Switching Display Device. Sets the current display device.



Note: Make sure an external monitor is connected before External monitor is selected.

☐ Brightness for LCD Panel/Contrast for LCD Panel. Click and drag to set the LCD screen brightness and contrast levels.



Note: TFT active-matrix LCDs have fixed and optimized contrast levels.

Click on the radio button of the desired item, then click on **Apply** to accept. To modify the brightness and/or contrast levels, click and hold the slider control and move to the right to increase, move to the left to decrease the setting. You can also click on the item, and use the cursor keys to set the desired level.

Line-in/Microphone

Line-in/Microphone is used to set the input source fro the computer's line-in/microphone-in jack.



Click on the radio button of the desired item, then click on **Apply** to accept.

Setup Utility

The Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Ouput System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 6, Troubleshooting when a problem arises.

To activate the Setup Utility, press **F2** during POST (while the Extensa logo is being displayed.

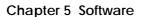
Navigating the Setup Utility

There are five menu options: Main, Advanced, Security, Power Saving and Exit. To navigate the Setup Utility:
\square Press the cursor right/left keys $\rightarrow\leftarrow$ to move between the main menu items.
☐ Press Esc while you are in any of the menu options to display the Exit menu.
☐ Press the cursor up/down keys ↑↓ to move between parameters.
☐ Press the plus/minus keys +- to change the value of a parameter.
Note: You can change the value of a parameter if it is enclosed in square brackets.
☐ Press the Enter key to access a submenu. A > symbol in

front of a parameter denotes an item with a submenu.

Note: Parameter explanations are displayed in the ItemSpecific Help section of the Setup Utility (right panel).

Navigation keys are shown on the bottom of the screen.



Main

The Main screen contains parameters involving basic computer settings and hardware information.

Main	Advanced	Security	Power	Saving	Exit		
System Time:		[07:23:00]				Iter	n Specific He l p
System Da	ate:	[04/07/1998]			-		
Floppy Dis	sk A:	[1.44 MB 3½"]					
P Hard Disk		(C: 2161 MB)					
DCD-ROM/A	ATAPI Devices:						
P Boot Device	ce Priority						
Speaker:	-	[Enabled]					
Boot Displ	lay Device:	[Auto]					
Mic-In/Lin	ie-In:	[Mic-in]					
System M	emory:	16 MB					
Video Mer		2 MB					
CPU Type:		Pentium MMX					
CPU Spee		166 Mhz					
VGA BIOS		V1.14.004 R01	K				
BIOS Vers	ion:	V1.0 R01-31					
F1 Help	↑↓ s	elect Item	-/+	Change Va	lues	F9	Setup Defau l ts
Esc Exit	$\leftarrow \rightarrow S$	elect Menu	Enter	Select ▶ St	ub-Menu	F10	Save and Exit

The following table describes the parameters in this screen. Settings in boldface are the default and suggested parameter settings.

Parameter	Description
System Time	Sets the system time. Format: HH:MM:SS (hour:minute:second)
System Date	Sets the system date. Format: DD/MM/YYYY (day/month/year)
Floppy Disk A	Selects the floppy disk drive type. Options: 1.44 MB, 3½" or Disabled.
Hard Disk 0	Shows the hard disk size. Press Enter to access the Hard Disk 0 submenu.
CD-ROM/ ATAPI Devices	Shows the media bay module type installed. Press Enter to access the CD-ROM/ATAPI Device submenu.

Parameter	Description	
Boot Device Priority	Press Enter to access the Boot Device Priority submenu.	
Speaker	Enables or disables the internal speakers on boot- up. You can override this by toggling Fn-F8 during computer operation. Options: Enabled or Disabled	
Boot Display Device	Sets the display on boot-up. When set to Auto, the computer automatically determines the display device. If an external display device (e.g., monitor) is connected, it becomes the boot display; otherwise, the computer LCD is the boot display. When set to Both, the computer outputs to both the computer LCD and an external display device if one is connected. Options: Auto or Both	
Mic-in/ Line-in	Sets the function of the microphon-in/line-in jack. Options: Mic-in or Line-in	
System Memory	Shows the size of main memory.	
Video Memory	Shows the size of video memory.	
СРИ Туре	Shows the type of the CPU.	
CPU Speed	Shows the speed of the CPU.	
VGA BIOS Version	Shows the version number of the VGA BIOS. Format: Vx Rx (version and release numbers)	
BIOS Version	Shows the version number of the BIOS. Format: Vx Rx (version and release numbers)	



Note: The BIOS versions are important information about your computer. If you experience computer problems and need to contact technical support, this data helps our service personnel know more about your computer.

Hard Disk 0 Submenu

The hard disk 0 submenu allows you to set parameters related to your hard disk. Press **Enter** to access this submenu.

Main				
	Hard Disk 0 (C: 216	1 MB)		Item Specific Help
Type: Cylinder: Heads: Sectors/Track: Maximum Capacit	[Auto] [4188] [16] [63] y: 2161 MB			
	T↓ Select Item Select Menu	-/+ Enter	Change Values Select ▶ Sub-Menu	F9 Setup Defaults F10 Save and Exit

The following table describes the parameters in this screen. Settings in boldface are the default and suggested parameter settings.

Parameter	Description
Туре	Sets the hard disk type. Options: Auto , User or None
Cylinders	Shows the number of cylinders of the hard disk.
Heads	Shows the number of heads of the hard disk.
Sectors/Track	Shows the number of sectors per track of the hard disk.

Parameter	Description
Maximum Capacity	Shows the maximum capacity of the hard disk.



Note: The values for Cylinder, Heads, Sectors/Track and Maximum Capacity are automatically set when the hard disk type is set to Auto. We suggest you set the hard disk type to [Auto] for hassle-free and correct hard disk detection. The computer's BIOS automatically sets the parameters in this screen to their optimal values.

CD-ROM/ATAPI Devices Submenu

The CD-ROM/ATAPI Devices submenu allows you to set parameters related to the module installed in the media bay. Press **Enter** to access this submenu.

Main				
	CD-ROM/ATAPI De	evices [CI	D-ROM]	Item Specific Help
Туре:	[Auto]		
F1 He l p	↑↓ Select Item	-/+	Change Values	F9 Setup Defaults
Esc Exit	←→ Select Menu	Enter		F10 Save and Exit

This screen resembles the Hard Disk submenu screen. You can refer to the Item Specific help to the right of the screen or the previous section for descriptions of these parameters.



Note: We suggest you set the type to [Auto] for hassle-free and correct detection of the module installed in the media bay. The computer's BIOS automatically sets the parameters in this screen to their optimal values.

Boot Device Priority Submenu

The Boot Device Priority submenu allows you to set the boot sequence of the bootable devices in your computer. Press **Enter** to access this submenu.

Main				
	Boot Device Priority:			Item Specific Help
1. [Removab 2. [Hard Driv 3. [CD-ROM	re]			
F1 Help Esc Exit	↑↓ Select Item ←→ Select Menu	-/+ Enter	Change Values Select ► Sub-Menu	F9 Setup Defaults F10 Save and Exit

The computer boots-up using the sequence specified in this submenu. To set the boot device priority, use the plus/minus +- keys.

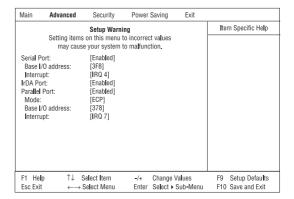
Boot Device	Description
Removable Devices	Computer boots from the removable device (i.e., bootable floppy disk in the floppy drive).
Hard Drive	Computer boots from the hard disk.
CD-ROM Drive	Computer boots from the CD-ROM drive (i.e., bootable CD-ROM in the CD-ROM drive).

Advanced



Caution: The parameters in this screen are for advanced users only. You do not need to change the values in this screen because these values are already optimized.

The Advanced screen contains parameters that are related to computer hardware.



The following table describes the parameters in this screen. Settings in boldface are the default and suggested parameter settings.

Parameter	Description
Serial Port	Enables or disabled the serial port. Options: Enabled or Disabled
Base I/O address	Sets the I/O address of the serial port. Options: 3F8 , 2F8, 3E8 or 2E8
Interrupt	Sets the interrupt request of the serial port. Options: IRQ4, IRQ10, IRQ11 or IRQ 3

Parameter	Description
IrDA Port	Enables or disables the infrared port. Options: Enabled or Disabled
Parallel Port	Enables or disables the parallel port. Options: Enabled or Disabled
Mode	Sets the operation mode of the parallel port. Options: ECP , Bi-directional or Output only
Base I/O address	Sets the I/O address of the parallel port. Options: 378 , 278, 3E8 or 2E8
Interrupt	Sets the interrupt request of the parallel port. Options: IRQ 7 or IRQ 5

Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.

Main	Advanced	Security	Power	Saving	Exit		
	ssword is sor Password is	ı	Disabled Disabled			Ite	m Specific Help
	r Password ervisor Passwo	rd	[Enter] [Enter]				
	rd on boot: rd check during	Resume:	[Enab l ed] [Disab l ed]				
F1 Hel		Select Item	-/+	Change Val		F9	Setup Defaults
Esc Exit	$\leftarrow \rightarrow 3$	Select Menu	Enter	Select ▶ Su	nuainigun	ги	Save and Exit

The following table describes the parameters in this screen. Settings in boldface are the default and suggested parameter settings.

Description
When set, this password protects the computer and this Setup Utility from unauthorized entry. When Password on boot and/or Password check during Resume is enabled, you need to enter this password to continue operation. Before setting the user password, you need to set the Supervisor Password. Options: Disabled or Enabled
When set, this password protects the computer and this Setup Utility from unauthorized entry. It also protects certain parameters in the Setup Utility. When Password on boot and/or Password check during Resume is enabled, you need to enter this password to continue operation. Options: Disabled or Enabled
When set, this password protects the computer from unauthorized entry. At startup or a resume operation, you need to enter the power on password before you can continue. Before setting the user password, you need to set the supervisor password. Options: Disabled or Enabled
Press Enter to set the supervisor password. See "Setting a Password" on page 92 on how to set a password.
Press Enter to set the user password. See "Setting a Password" on page 92 on how to set a password.

Parameter	Description
Password on boot	When enabled, the computer prompts you for a password when the computer boots up. Options: Enabled or Disabled
Password check during Resume	When enabled, the computer prompts you for a password when the computer resumes from standby or hibernation mode. Options: Disabled or Enabled



Note: To set the User Password or the Password on boot, Password check during Resume and Diskette access parameters, you need to set the Supervisor Password first.

Setting a Password

Follow these steps:

 Use the ↑ and ↓ keys to highlight a Set Password parameter (Supervisor or User) and press the Enter key. The password box appears:



2. Type a password. The password may consist of up to seven characters (A-Z, a-z, 0-9).



Important: Be very careful when typing your password because the characters do not appear on the screen.

3. Press **Enter**. Retype the password to verify your first entry and press **Enter**.

After setting the password, the computer automatically sets the chosen password parameter to Enabled.

4. Press Esc to go to the Exit menu.

5. Press **Save Change & Exit** to save the password and exit the Setup Utility.

To change a password, follow the same steps used to set a password.

Removing a Password

Should you want to remove a password, do the following:

 Use the ↑ and ↓ keys to highlight a Set Password parameter (Supervisor or User) and press the **Enter** key. The password box appears:



- **2.** Press **Enter** twice without entering anything in the password box to remove the existing password.
- **3.** Press **Esc** to go to the Exit menu.
- **4.** Press **Save Change & Exit** to save the password and exit the Setup Utility.

Power Saving

The Power Saving screen contains parameters that are related to power-saving and power management.

Main	Advanced	Security	Power	Saving	Exit		
	ic Power Manag A l ways On	[Enabled] [Disabled]			Iter	n Specific He l p	
Battery	Low Suspend:		[Enabled]				
	e on A l arm: sume Time: Date:		[Disabled] [00:00:00 [00/00/00]			
Wake 0	ın LAN	[Disabled]					
Battery	Low Warning Be	еер:	[Enabled]				
F1 Hel		Select Item	-/+	Change Va		F9	Setup Defau l ts
Esc Exi	t ←→ 5	Select Menu	Enter	Select ▶ St	ub-Menu	F10	Save and Exit

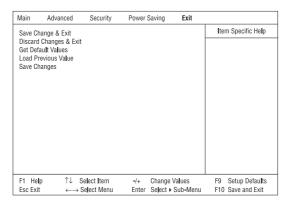
The following table describes the parameters in this screen. Settings in boldface are the default and suggested parameter settings.

Parameter	Description
Heuristic Power Management	Enables or disables heuristic power management. See "Power Management Modes" on page 40 for more information on power management modes Options: Enabled or Disabled
Display Always On	When enabled, the computer display is always on. You may want to set this if you are making a presentation on your computer. Options: Disabled or Enabled

Parameter	Description
Battery Low Suspend	Enables or disables the hibernation function during a battery-low condition. When the computer is running very low on battery power, the computer will enter hibernation mode if PhDISK is installed and the hibernation file is valid. See "PhDISK" on page 73. Options: Enabled or Disabled
Resume on Alarm	When enabled and the system resume date and time are valid, the computer resumes (wakes up) at the set time and date. Options: Disabled or Enabled
Resume Time	Sets the time the computer resumes at if Resume on Alarm is enabled. Format: HH:MM:SS (hour:minute:second)
Date	Sets the date the computer resumes at if Resume on Alarm is enabled. Format: DD/MM/YYYY (day/month/year)
Wake On LAN	When enabled, the computer wakes up from standby mode if the computer is accessed through the network. Consult your network administrator for details. Options: Disabled or Enabled
Battery Low Warning Beep	Enables or disables warning beeps during a battery-low condition. Options: Enabled or Disabled

Exit

When you select the Exit menu or press **Esc** from any screen, the Exit options screen displays.



The following table describes the parameters in this screen.

Parameter	Description
Save Change & Exit	Saves any changes made, exits the Setup utility and reboots.
Discard Changes & Exit	Discards any changes made, exits the Setup utility and reboots.
Get Default Values	Resets all parameters to their factory-default values.
Load Previous Value	Disregards any changes made in the current session and reloads their previous values.
Save Changes	Saves any changes made.



Note: If you make any parameter changes, select Save Change & Exit or Save Changes to store your changes.

Troubleshooting

This chapter instructs you on how to deal with common system problems. Read it before calling a technician if a problem occurs. Solutions to more serious problems require opening up the computer. Do not attempt to open the computer by yourself. Contact your dealer or an authorized service center for assistance.

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Frequently-Asked Questions

This is a list of possible situations that may arise during the use of your computer, and gives easy answers and solutions to these questions.

I pressed the power switch and opened the display, but the computer does not start or boot-up.

Lo	ok a	at the Power indicator:
		t is not lit, no power is being applied to the computer. eck the following:
		If you are running on battery power, it may be low and unable to power the computer. Connect the AC adapter to recharge the battery pack.
		Make sure the AC adapter is plugged in properly to the computer and to the power outlet.
	If i	it is lit, check the following:
		If the Standby indicator is lit, the computer is in standby mode. Press any key or tap on the touchpad to resume.

The operating system files may be damaged or missing. Insert the startup disk you created during Windows 95 setup into the floppy drive and press Ctrl-Alt-Del to restart the system. This will diagnose your system and make necessary fixes.

☐ Is a non-bootable (non-system) diskette in the floppy drive? Remove or replace it with a system diskette and press Ctrl-Alt-Del to restart the system.

Nothing appears on the screen.

The computer's power management system automatically blanks the screen to save power. Press any key to turn the display back on.

	pressing a key does not turn the display back on, two ings might be the cause:
	The contrast and/or brightness level might be too low. Press $Fn-\uparrow$ and $Fn-\downarrow$ to adjust the contrast level (only for models with SCC LCDs). Press $Fn-\leftarrow$ and $Fn-\rightarrow$ to adjust the brightness level.
	The display device might be set to an external monitor. Press the display toggle hot key Fn-F6 to toggle the display back to the computer.
Im	age is not full-screen.
dis yo the Se ap sp	ake sure the resolution is set to 800x600 (12.1-inch splays) and 1024x768 (13.3-inch displays). Right-click on ur Windows 95 desktop and select Properties to bring up a Display Properties dialog box. Then click on the ttings tab to make sure the resolution is set to the propriate resolution. Resolutions lower than the ecified resolution is not full-screen on the computer or on external monitor.
No	audio from the computer.
Cł	neck the following:
	The volume may be muted. In Windows 95, look at the volume control icon on the taskbar. If it is crossed-out, click on the icon and deselect the Mute option.
	The speakers may be turned off. Press Fn-F8 to turn the speakers on (this hot key also turns the speakers off).
	The volume level may be too low. In Windows 95, look at the volume control icon on the taskbar. Click on the icon and adjust the level. You can also use the volume control knob on the right panel of the computer to adjust the volume.

If headphones, earphones or external speakers are connected to the line-out port on the computer's rear panel, the internal speakers automatically turn off.

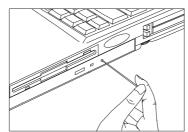
External microphone or audio line-in device does not work.

Check the following:

- ☐ Make sure the external microphone or audio line-in device is connected to the line-in/microphone-in jack on the computer's rear panel.
- If you cannot hear playback, the speakers may be muted.
- ☐ Make sure the line-in/microphone-in jack is configured for the appropriate source. Run Notebook Manager and click on the Line-in/Microphone tab and set the input source correctly. Click on **Apply** to accept.

I want to eject the CD-ROM tray without turning on the power. I cannot eject the CD-ROM drive tray.

There is a mechanical eject button on the CD-ROM drive. Simply insert the tip of a pen or paperclip and push to eject the CD-ROM tray.



The keyboard does not respond.

Try attaching an external keyboard to the PS/2 connector on the computer's rear. If it works, contact your dealer or an authorized service center as the internal keyboard cable may be loose.

	•
The	e serial mouse does not work.
Ch	neck the following:
	Make sure that the serial cable is plugged securely into the serial port. $\label{eq:make_serial}$
	During POST, press F2 to access the Setup Utility. Go to the Advanced screen and verify that the serial port is enabled. See "Advanced" on page 89 for details.
ha	refer using an external keyboard and mouse, but both ve PS/2 connectors and there is only one PS/2 port on the imputer.
ne	connect two PS/2-type devices to the computer, you ed to use a PS/2 Y-bridge connector. See "PS/2 Y-Bridge ble" on page 56 for details.
The	e printer does not work.
Ch	neck the following:
	Make sure that the printer is connected to a power outlet and it is turned on.
	Make sure the printer cable is connected securely to the computer's parallel port and the corresponding port on the printer.
	During POST, press $\bf F2$ to access the Setup Utility. Go to the Advanced screen and verify that the parallel port is enabled. See "Advanced" on page 89 for details.

The infrared port does not work.

Check the follov	win	g:
------------------	-----	----

Make sure that the infrared ports of the two devices are
facing each other (+/- 15 degrees) a maximum of 1 meter
apart.

- ☐ Make sure there is a clear path between the two infrared ports. Nothing should be blocking the ports.
- ☐ Make sure you have the appropriate software running on both devices (for file transfers) or you have the appropriate drivers (for printing to an infrared printer).
- ☐ During POST, press **F2** to access the Setup Utility. Go to the Advanced screen and verify that the infrared port is enabled.
- ☐ Make sure both devices are IrDA-compliant.

I want to set up my location to use the internal modem.

To properly use your communications software (e.g., HyperTerminal), you need to set up your location:

- 1. Open the Windows 95 Control Panel and double-click on the Modems icon.
- 2. Click on Dialing Properties and begin setting up your location.

Refer to the Windows 95 manual.

Error Messages

Error Messages

If you receive an error message, note the message and take the corrective action. The following table lists the error messages in alphabetical order together with the recommended course of action.

Error Messages	Corrective Action
CMOS Battery Bad	Contact your dealer or an authorized service center.
CMOS Checksum Error	Contact your dealer or an authorized service center.
Disk Boot Failure	Insert a system (bootable) diskette in the floppy drive (A:), then press Enter to reboot.
Diskette Drive Controller Error or No Controller Present	Contact your dealer or an authorized service center.
Diskette Drive Error	Contact your dealer or an authorized service center.
Diskette Drive Type Mismatch	Press F2 (during POST) to enter the Setup Utility; then press Esc to exit and reconfigure the computer.
Equipment Configuration Error	Press F2 (during POST) to enter the Setup Utility; then press Esc to exit and reconfigure the computer.
Hard Disk 0 Error	Contact your dealer or an authorized service center.
Hard Disk 0 Extended Type Error	Contact your dealer or an authorized service center.
I/O Parity Error	Contact your dealer or an authorized service center.

Error Messages

Error Messages	Corrective Action
Insert system diskette and press <enter> key to reboot</enter>	Insert a system (bootable) diskette in the floppy drive (A:), then press Enter to reboot.
Keyboard Error or No Keyboard Connected	Contact your dealer or an authorized service center.
Keyboard Interface Error	Contact your dealer or an authorized service center.
Memory Size Mismatch	Press F2 (during POST) to enter the Setup Utility; then press Esc to exit and reconfigure the computer.
Missing operating system	 Follow these steps: Press F2 (during POST) to enter the Setup Utility. Enter the Hard Disk 0 submenu and correct the Hard Disk 0 type. See the specification label attached to hard disk drive. We suggest you set the Hard Disk 0 type to [Auto] for hard disk drive auto-detection. Exit the Setup Utility (saving the changes).
Non-system disk or disk error. Replace and strike any key when ready	Insert a system (bootable) diskette in the floppy drive (A:), then press Enter to reboot.
Pointing Device Error	Contact your dealer or an authorized service center.
Pointing Device Interface Error	Contact your dealer or an authorized service center.
Protected Mode Test Fail	Contact your dealer or an authorized service center.

Error Messages

Error Messages	Corrective Action
RAM BIOS Bad	Contact your dealer or an authorized service center.
RAM Parity Error	Contact your dealer or an authorized service center.
Real-Time Clock Error	Press F2 (during POST) to reconfigure the computer.
Video RAM BIOS Bad	Contact your dealer or an authorized service center.

If you still encounter problems after going through the corrective measures, please contact your dealer or an authorized service center for assistance. Some problems may be solved using the BIOS Setup Utility. See "Setup Utility" on page 83.

This appendix lists the general specifications of your computer. Microprocessor Intel Mobile Module (IMM) with: ☐ Intel Pentium® II processor or Intel Pentium® processor with MMXTM technology ☐ Integrated 256KB or 512KB Level 2 cache memory Memory ☐ 16MB main memory expandable to 128 MB ☐ Two 144-pin soDIMM sockets (SDRAM - Synchronous Dynamic Random Access Memory) ☐ 64-bit dual memory banks ☐ 256KB Flash ROM BIOS Data Storage ☐ One 2.5-inch. 12.7mm removable hard disk ☐ One 3.5-inch internal floppy drive ☐ One 5.25-inch removable CD-ROM drive (media bay) Display and Video

☐ 12.1-inch fast-response, high-contrast true-color Super Clear Color LCD, or 12.1-/13.3-inch high- color Thin

■ 800x600 SVGA resolution (12.1-inch) or 1024x768 XGA

☐ Integrated 128-bit graphics accelerator (PCI) and 2MB

Film Transistor LCD

resolution (13.3-inch)

EDO video memory

☐ Simultaneous LCD and CRT display

Audio
☐ 16-bit stereo audio (PCI)
$\ \square$ 3-dimensional sound with built-in wavetable synthesizer
☐ Dual speakers
☐ Sound Blaster Pro- and Windows Sound System-compatible
☐ Separate audio ports for line-out and line-in/microphone-in devices
Keyboard and Pointing Device
☐ 84-/85-/88-key Windows 95 keyboard
\square Ergonomically-centered touchpad pointing device
I/O Ports
☐ Two type II/I or one type III CardBus socket(s)
☐ One RJ-11 phone jack
☐ One DC-in jack (AC adapter)
$\ \Box$ One FIR wireless communications port (IrDA-compliant)
☐ One RS-232 serial port (UART16550-compatible)
☐ One parallel port (ECP-compliant)
☐ One external monitor port (DDC 2.0-compliant)
☐ One keyboard/mouse port (PS/2-compatible)
☐ One mini docking station connector
\Box One speaker-/headphone-out jack
☐ One line-in/microphone-in jack
☐ One USB port
☐ One S-video jack

We	eight and Dimensions
	3.18 kg (7 lb)
	308 x 251 x 45 mm (12.1 x 9.9 x 1.8 in)
Tei	mperature
	Operating: 10°C ~ 35°C
	Non-operating: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Hu	midity (non-condensing)
	Operating: 20% ~ 80% RH
	Non-operating: 20% ~ 80% RH
Sy	stem
	Windows 95 or higher, or Windows NT (option) operating system $$
	DMI-compliant
	LDCM support
Ва	ttery Pack
	43-WattHour Lithium-Ion battery pack
	Smart battery management technology
	2-hour rapid charge/3~4-hour charge-in-use
AC	C Adapter
	60-Watt
\Box	Auto sensing 100~240Vac 50~60Hz

Οþ	otions
	16-/32-/64-MB SDRAM memory upgrade module
	Higher-capacity hard disk drive
	Media bay modules: DVD-ROM drive, LS-120 drive, 2nd hard disk
	PS/2 Y-cable
	Full-function mini docking station
	Additional AC adapter and battery pack

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