




Dell™ Latitude™ X1 User's Guide

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Notes, Notices, and Cautions

-  **NOTE:** A NOTE indicates important information that helps you make better use of your computer.
-  **NOTICE:** A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.
-  **CAUTION:** A CAUTION indicates a potential for property damage, personal injury, or death.

Abbreviations and Acronyms

For a complete list of abbreviations and acronyms, see the [Glossary](#).

-  **NOTE:** If you purchased a Dell™ n Series computer, any references in this document to Microsoft® Windows® operating systems are not applicable.
 -  **NOTE:** Some features may not be available for your computer or in certain countries.
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Model PPO55

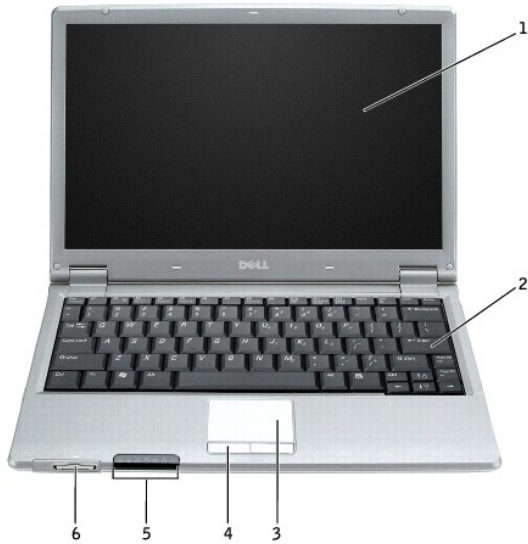
June 2005 Rev. A02

About Your Computer

Dell™ Latitude™ X1 User's Guide

- [Front View](#)
- [Left View](#)
- [Right View](#)
- [Back View](#)
- [Bottom View](#)


Front View








1	display
2	keyboard
3	touch pad
4	touch pad buttons (2)
5	device and keyboard status lights
6	Secure Digital memory slot


device status lights




 Turns on when the computer reads or writes data.

 **NOTICE:** To avoid loss of data, never turn off the computer while the  light is flashing.

	Turns on when Bluetooth® wireless technology is enabled. To enable or disable Bluetooth wireless technology, press <Fn><F2>.
	Indicates battery charge status.
	Turns on when you turn on the computer or blinks steadily when the computer is in standby mode.

If the computer is connected to an electrical outlet, the  light operates as follows:

- o Solid green: The battery is charging.
- o Flashing green: The battery is almost fully charged.

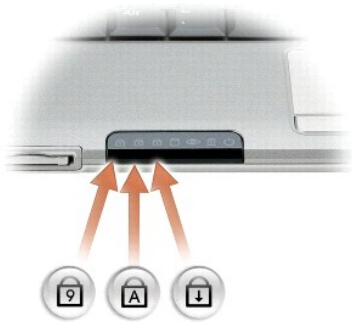
If the computer is running on a battery, the  light operates as follows:

- o Off: The battery is adequately charged (or the computer is turned off).
- o Flashing orange: The battery charge is low.
- o Solid orange: The battery charge is critically low.




display — For more information about your display, see "[Using the Display](#)."

keyboard — The keyboard includes a numeric keypad as well as the Microsoft® Windows® logo key. For information on supported keyboard shortcuts, see "[Using the Keyboard and Touch Pad](#)."

keyboard status lights




The green lights located above the keyboard indicate the following:

	Turns on when the numeric keypad is enabled.
	Turns on when the Caps Lock function is enabled.
	Turns on when the scroll lock function is enabled.

touch pad buttons — Provide the functionality of a mouse. See "[Using the Keyboard and Touch Pad](#)" for more information.

touch pad — Provides the functionality of a mouse. See "[Using the Keyboard and Touch Pad](#)" for more information.

Secure Digital memory card slot

	The Secure Digital memory card slot supports one Secure Digital memory card. Use Secure Digital memory cards to save or back up data.
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Left View



1	AC adapter connector
2	video connector
3	powered USB connector
4	IEEE 1394 connector
5	audio connectors


AC adapter connector — Connects the AC adapter so that you can run the computer on AC power instead of battery power. The AC adapter converts AC power to the DC power required by the computer. You can connect the AC adapter with your computer turned either on or off.

CAUTION: The AC adapter works with electrical outlets worldwide. However, power connectors and power strips vary among countries. Using an incompatible cable or improperly connecting the cable to the power strip or electrical outlet may cause fire or equipment damage.

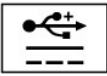
NOTICE: When you disconnect the AC adapter cable from the computer, grasp the connector, not the cable itself, and pull firmly but gently to avoid damaging the cable.



video connector

	Connects an external monitor.
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powered USB 2.0 connector

	Connects USB 2.0 compliant devices, such as a mouse, keyboard, or printer. Can also be used for peripherals that require more than 5V of power.
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IEEE 1394 connector — Connects devices supporting IEEE 1394 high-speed transfer rates, such as some digital video cameras.

audio connectors



Attach headphones or speakers to the  connector.
Attach a microphone to the  connector.

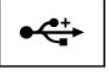
Right View




1	CompactFlash card slot
2	USB connector
3	network connector
4	modem connector
5	power button

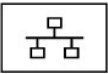
CompactFlash card slot — The CompactFlash card slot supports one CompactFlash card. Use CompactFlash cards to save or back up data.

USB 2.0 connector


	Connects USB 2.0 compliant devices that require power from the USB port.
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network connector (RJ-45)


 **NOTICE:** The network connector is slightly larger than the modem connector. To avoid damaging the computer, do not plug a telephone line in to the network connector.

	Connects the computer to a network. The lights next to the connector indicate activity for wired network communications. For information on using the network adapter, see the online network-adapter documentation supplied with your computer.
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modem connector (RJ-11)

	Connects the telephone line to the modem connector, if you ordered the optional internal modem. For information on using the modem, see the online modem documentation supplied with your computer.
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power button — Press the power button to turn on the computer or to enter or exit a power management mode.


 **NOTICE:** To avoid losing data, use the operating system to shut down your computer instead of pressing the power button.

Back View



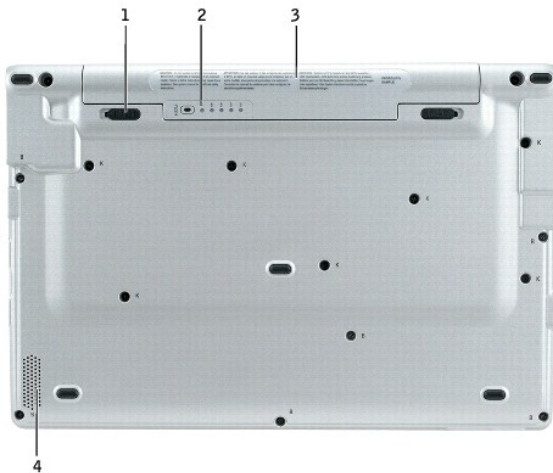
1 [security cable slot](#)

security cable slot — Lets you attach a commercially available antitheft device to the computer. For more information, see the instructions included with the device.

 **NOTE:** Before you buy an antitheft device, ensure that it will work with the security cable slot.



Bottom View



1	battery-bay latch releases (2)
2	battery charge gauge
3	battery
4	speaker

battery-bay latch releases — Release the battery.

battery charge gauge — Provides information on the battery charge. See "[Checking the Battery Charge](#)."

battery/battery bay — When a battery is installed, you can use the computer without connecting the computer to an electrical outlet. See "[Using a Battery](#)."

speaker — To adjust the volume of the integrated speaker, press the volume control buttons or volume control keyboard shortcuts. For more information, see "[Using the Keyboard and Touch Pad](#)."

Appendix


Dell™ Latitude™ X1 User's Guide

- [Macrovision Product Notice](#)
- [FCC Notices \(U.S. Only\)](#)

Macrovision Product Notice

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

FCC Notices (U.S. Only)

Most Dell computers are classified by the Federal Communications Commission (FCC) as Class B digital devices. To determine which classification applies to your computer, examine all FCC registration labels located on the bottom, side, or back panel of your computer, on card-mounting brackets, and on the cards themselves. If any one of the labels carries a Class A rating, your entire computer is considered to be a Class A digital device. If *all* labels carry an FCC Class B rating as distinguished by either an FCC ID number or the FCC logo, (), your computer is considered to be a Class B digital device.

Once you have determined your computer's FCC classification, read the appropriate FCC notice. Note that FCC regulations provide that changes or modifications not expressly approved by Dell could void your authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference.
- 1 This device must accept any interference received, including interference that may cause undesired operation.

Class A

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

Class B

This equipment 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 equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

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

FCC Identification Information

The following information is provided on the device or devices covered in this document in compliance with FCC regulations:


- 1 Model number: PP05S
- 1 Company name:
Dell Inc.
One Dell Way
Round Rock, Texas 78682 USA
512-338-4400

Using a Battery

Dell™ Latitude™ X1 User's Guide


- [Battery Performance](#)
- [Checking the Battery Charge](#)
- [Charging the Battery](#)
- [Removing a Battery](#)
- [Installing a Battery](#)
- [Storing a Battery](#)

Battery Performance

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions located in the *Product Information Guide*.


For optimal computer performance and to help preserve BIOS settings, operate your Dell™ portable computer with the battery installed at all times. Use a battery to run the computer when it is not connected to an electrical outlet. One battery is supplied as standard equipment in the battery bay.

Battery operating time varies depending on operating conditions.


 **NOTE:** Battery operating time (the time the battery can hold a charge) decreases over time. Depending on how often the battery is used and the conditions under which it is used, you may need to purchase a new battery during the life of your computer.


Operating time is significantly reduced when you perform operations including, but not limited to, the following:


- 1 Using wireless communications devices or USB devices
- 1 Using high-brightness display settings, 3D screen savers, or other power-intensive programs such as 3D games
- 1 Running the computer in maximum performance mode

 **NOTE:** It is recommended that you connect your computer to an electrical outlet when writing to a CD or DVD.


You can [check the battery charge](#) before you [insert the battery](#) into the computer. You can also set power management options to alert you when the [battery charge is low](#).

 **CAUTION:** Using an incompatible battery may increase the risk of fire or explosion. Replace the battery only with a compatible battery purchased from Dell that is designed to work with your Dell computer. Do not use a battery from other computers with your computer.

 **CAUTION:** Do not dispose of batteries with household waste. When your battery no longer holds a charge, call your local waste disposal or environmental agency for advice on disposing of a battery. See "Battery Disposal" in the *Product Information Guide*.

 **CAUTION:** Misuse of the battery may increase the risk of fire or chemical burn. Do not puncture, incinerate, disassemble, or expose the battery to temperatures above 65°C (149°F). Keep the battery away from children. Handle damaged or leaking batteries with extreme care. Damaged batteries may leak and cause personal injury or equipment damage.

Checking the Battery Charge




The Dell QuickSet Battery Meter, the Microsoft® Windows® Power Meter window and  icon, the battery charge gauge and health gauge, and the low-battery warning provide information on the battery charge.

Dell QuickSet Battery Meter

If [Dell QuickSet](#) is installed, press <Fn><F3> to display the QuickSet Battery Meter.


The **Battery Meter** window displays status, charge level, and charge completion time for the battery in your computer.


The following icons appear in the **Battery Meter** window:

	The computer or docking device is running on battery power.
	The computer is connected to AC power and the battery is charging.
	The computer is connected to AC power and the battery is fully charged.

For more information about QuickSet, right-click the  icon in the taskbar, and click **Help**.

Microsoft® Windows® Power Meter

The Windows Power Meter indicates the remaining battery charge. To check the Power Meter, double-click the  icon on the taskbar. For more information about the **Power Meter** tab, see "[Power Management](#)."

If the computer is connected to an electrical outlet, a  icon appears.

Charge Gauge

Before you [insert a battery](#), press the status button on the battery charge gauge to illuminate the charge-level lights. Each light represents approximately 20 percent of the total battery charge. For example, if the battery has 80 percent of its charge remaining, four of the lights are on. If no lights appear, the battery has no charge.

Low-Battery Warning

- ➔ **NOTICE:** To avoid losing or corrupting data, save your work immediately after a low-battery warning. Then connect the computer to an electrical outlet. If the battery runs completely out of power, hibernate mode begins automatically.

A pop-up window warns you when the battery charge is approximately 90 percent depleted. For more information about low-battery alarms, see "[Power Management](#)."


Charging the Battery

The AC adapter charges a completely discharged battery to 80% in about 1 hour and to 100% in approximately 2 hours when the computer is turned off.

- 📌 **NOTE:** With Dell™ ExpressCharge™, when the computer is turned off, the AC adapter charges a completely discharged battery to 80% in about 1 hour and to 100% in approximately 2 hours. Charge time is longer with the computer turned on. You can leave the battery in the computer for as long as you like. The battery's internal circuitry prevents the battery from overcharging.

When you connect the computer to an electrical outlet or install a battery while the computer is connected to an electrical outlet, the computer checks the battery charge and temperature. If necessary, the AC adapter then charges the battery and maintains the battery charge.

If the battery is hot from being used in your computer or being in a hot environment, the battery may not charge when you connect the computer to an electrical outlet.

The battery is too hot to start charging if the  light flashes alternately green and orange. Disconnect the computer from the electrical outlet and allow the computer and the battery to cool to room temperature. Then connect the computer to an electrical outlet to continue charging the battery.

For more information about resolving problems with a battery, see "[Power Problems](#)."

Removing a Battery

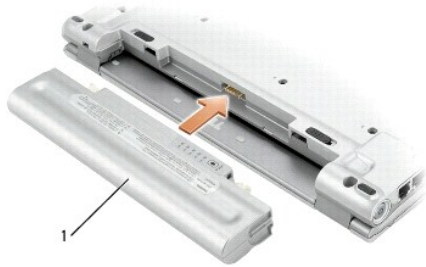
- ⚠️ **CAUTION:** Before performing these procedures, disconnect the modem from the telephone wall jack.
- ➔ **NOTICE:** If you choose to replace the battery with the computer in standby mode, you have up to 1 minute to complete the battery replacement before the computer shuts down and loses any unsaved data.

1. Ensure that the computer is turned off or connected to an electrical outlet.
2. Slide and hold the battery-bay latch releases on the bottom of the computer, and then remove the battery from the bay.



Installing a Battery

Slide the battery into the bay until the latch release clicks.



Storing a Battery


Remove the battery when you store your computer for an extended period of time. A battery discharges during prolonged storage. After a long storage period, [recharge the battery](#) fully before you use it.

Cleaning Your Computer


Dell™ Latitude™ X1 User's Guide

• [Computer, Keyboard, and Display](#)


• [Touch Pad](#)

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions located in the *Product Information Guide*.

Computer, Keyboard, and Display

 **CAUTION:** Before you clean your computer, disconnect the computer from the electrical outlet and remove any installed batteries. Clean your computer with a soft cloth dampened with water. Do not use liquid or aerosol cleaners, which may contain flammable substances.

- 1 Use a vacuum cleaner with a brush attachment to gently remove dust from the slots and holes on your computer and from between the keys on the keyboard.

 **NOTICE:** To avoid damaging the computer or display, do not spray cleaning solution directly onto the display. Only use products specifically designed for cleaning LCDs, and follow the instructions that are included with the product.

- 1 Moisten a soft, lint-free cloth with either water or an LCD cleaner, and wipe the display until it is clean.
 - 1 Moisten a soft, lint-free cloth with water and wipe the computer and keyboard. Do not allow water from the cloth to seep between the touch pad and the surrounding palm rest.
-

Touch Pad

1. Shut down and turn off your computer, disconnect any attached devices, and disconnect them from their electrical outlets.
2. Remove any installed batteries.
3. Moisten a soft, lint-free cloth with water, and wipe it gently across the surface of the touch pad. Do not allow water from the cloth to seep between the touch pad and the surrounding palm rest.

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Contacting Dell

Dell™ Latitude™ X1 User's Guide

To contact Dell electronically, you can access the following websites:

- 1 www.dell.com
- 1 support.dell.com (technical support)
- 1 premiersupport.dell.com (technical support for educational, government, healthcare, and medium/large business customers, including Premier, Platinum, and Gold customers)

For specific web addresses for your country, find the appropriate country section in the table below.

 **NOTE:** Toll-free numbers are for use within the country for which they are listed.

NOTE: In certain countries, technical support specific to Dell Inspiron™ XPS computers is available at a separate telephone number listed for participating countries. If you do not see a telephone number listed that is specific for Inspiron XPS computers, you may contact Dell through the technical support number listed and your call will be routed appropriately.

When you need to contact Dell, use the electronic addresses, telephone numbers, and codes provided in the following table. If you need assistance in determining which codes to use, contact a local or an international operator.

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Anguilla	General Support	toll-free: 800-335-0031
Antigua and Barbuda	General Support	1-800-805-5924
Argentina (Buenos Aires) International Access Code: 00 Country Code: 54 City Code: 11	Website: www.dell.com.ar	
	E-mail: us_latin_services@dell.com	
	E-mail for desktop and portable computers: la-techsupport@dell.com	
	E-mail for servers and EMC® storage products: la_enterprise@dell.com	
	Customer Care	toll-free: 0-800-444-0730
	Tech Support	toll-free: 0-800-444-0733
	Tech Support Services	toll-free: 0-800-444-0724
Sales	0-810-444-3355	
Aruba	General Support	toll-free: 800-1578
Australia (Sydney) International Access Code: 0011 Country Code: 61 City Code: 2	E-mail (Australia): au_tech_support@dell.com	
	E-mail (New Zealand): nz_tech_support@dell.com	
	Home and Small Business	1-300-655-533
	Government and Business	toll-free: 1-800-633-559
	Preferred Accounts Division (PAD)	toll-free: 1-800-060-889
	Customer Care	toll-free: 1-800-819-339
	Technical Support (portables and desktops)	toll-free: 1-300-655-533
	Technical Support (servers and workstations)	toll-free: 1-800-733-314
	Corporate Sales	toll-free: 1-800-808-385
	Transaction Sales	toll-free: 1-800-808-312
Fax	toll-free: 1-800-818-341	
Austria (Vienna) International Access Code: 900 Country Code: 43 City Code: 1	Website: support.euro.dell.com	
	E-mail: tech_support_central_europe@dell.com	
	Home/Small Business Sales	0820 240 530 00
	Home/Small Business Fax	0820 240 530 49
	Home/Small Business Customer Care	0820 240 530 14
	Preferred Accounts/Corporate Customer Care	0820 240 530 16
	Home/Small Business Technical Support	0820 240 530 14
	Preferred Accounts/Corporate Technical Support	0660 8779
	Switchboard	0820 240 530 00
Bahamas	General Support	toll-free: 1-866-278-6818
Barbados	General Support	1-800-534-3066
	Website: support.euro.dell.com	
	E-mail for French-speaking Customers:	

Belgium (Brussels)	support.euro.dell.com/be/fr/emaildell/		
International Access Code: 00	Technical Support for Inspiron XPS computers only	02 481 92 96	
Country Code: 32	Technical Support for all other Dell computers	02 481 92 88	
City Code: 2	Technical Support Fax	02 481 92 95	
	Customer Care	02 713 15 .65	
	Corporate Sales	02 481 91 00	
	Fax	02 481 92 99	
	Switchboard	02 481 91 00	
Bermuda	General Support	1-800-342-0671	
Bolivia	General Support	toll-free: 800-10-0238	
Brazil	Website: www.dell.com/br		
International Access Code: 00	Customer Support, Technical Support	0800 90 3355	
Country Code: 55	Technical Support Fax	51 481 5470	
City Code: 51	Customer Care Fax	51 481 5480	
	Sales	0800 90 3390	
British Virgin Islands	General Support	toll-free: 1-866-278-6820	
Brunei	Customer Technical Support (Penang, Malaysia)	604 633 4966	
Country Code: 673	Customer Service (Penang, Malaysia)	604 633 4949	
	Transaction Sales (Penang, Malaysia)	604 633 4955	
Canada (North York, Ontario)	International Access Code: 011	Online Order Status: www.dell.ca/ostatus	
		AutoTech (automated technical support)	toll-free: 1-800-247-9362
		Customer Care (Home Sales/Small Business)	toll-free: 1-800-847-4096
		Customer Care (med./large business, government)	toll-free: 1-800-326-9463
		Technical Support (Home Sales/Small Business)	toll-free: 1-800-847-4096
		Technical Support (med./large bus., government)	toll-free: 1-800-387-5757
		Technical Support (printers, projectors, televisions, handhelds, digital jukebox, and wireless)	1-877-335-5767
		Sales (Home Sales/Small Business)	toll-free: 1-800-387-5752
		Sales (med./large bus., government)	toll-free: 1-800-387-5755
	Spare Parts Sales & Extended Service Sales	1 866 440 3355	
Cayman Islands	General Support	1-800-805-7541	
Chile (Santiago)			
Country Code: 56	Sales, Customer Support, and Technical Support	toll-free: 1230-020-4823	
City Code: 2			
China (Xiamen)	International Access Code: 86	Technical Support website: support.dell.com.cn	
		Technical Support E-mail: cn_support@dell.com	
		Customer Care E-mail: customer_cn@dell.com	
	Country Code: 86	Technical Support Fax	592 818 1350
	City Code: 592	Technical Support (Dell™ Dimension™ and Inspiron)	toll-free: 800 858 2969
		Technical Support (OptiPlex™, Latitude™, and Dell Precision™)	toll-free: 800 858 0950
		Technical Support (servers and storage)	toll-free: 800 858 0960
		Technical Support (projectors, PDAs, switches, routers, and so on)	toll-free: 800 858 2920
		Technical Support (printers)	toll-free: 800 858 2311
		Customer Care	toll-free: 800 858 2060
		Customer Care Fax	592 818 1308
		Home and Small Business	toll-free: 800 858 2222
		Preferred Accounts Division	toll-free: 800 858 2557
		Large Corporate Accounts GCP	toll-free: 800 858 2055
		Large Corporate Accounts Key Accounts	toll-free: 800 858 2628
		Large Corporate Accounts North	toll-free: 800 858 2999
		Large Corporate Accounts North Government and Education	toll-free: 800 858 2955
		Large Corporate Accounts East	toll-free: 800 858 2020
		Large Corporate Accounts East Government and Education	toll-free: 800 858 2669
		Large Corporate Accounts Queue Team	toll-free: 800 858 2572
	Large Corporate Accounts South	toll-free: 800 858 2355	
	Large Corporate Accounts West	toll-free: 800 858 2811	
	Large Corporate Accounts Spare Parts	toll-free: 800 858 2621	

Colombia	General Support	980-9-15-3978
Costa Rica	General Support	0800-012-0435
Czech Republic (Prague) International Access Code: 00 Country Code: 420	Website: support.euro.dell.com	
	E-mail: czech_dell@dell.com	
	Technical Support	22537 2727
	Customer Care	22537 2707
	Fax	22537 2714
	Tech Fax	22537 2728
Denmark (Copenhagen) International Access Code: 00 Country Code: 45	Switchboard	22537 2711
	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/dk/da/emaildell/	
	Technical Support for Inspiron XPS computers only	7010 0074
	Technical Support for all other Dell computers	7023 0182
	Customer Care (Relational)	7023 0184
	Home/Small Business Customer Care	3287 5505
	Switchboard (Relational)	3287 1200
Dominica	Switchboard Fax (Relational)	3287 1201
	Switchboard (Home/Small Business)	3287 5000
Dominican Republic	Switchboard Fax (Home/Small Business)	3287 5001
Dominica	General Support	toll-free: 1-866-278-6821
Dominican Republic	General Support	1-800-148-0530
Ecuador	General Support	toll-free: 999-119
El Salvador	General Support	01-899-753-0777
Finland (Helsinki) International Access Code: 990 Country Code: 358 City Code: 9	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/fi/fi/emaildell/	
	Technical Support	09 253 313 60
	Customer Care	09 253 313 38
	Fax	09 253 313 99
France (Paris) (Montpellier) International Access Code: 00 Country Code: 33 City Codes: (1) (4)	Switchboard	09 253 313 00
	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/fr/fr/emaildell/	
	Home and Small Business	
	Technical Support for Inspiron XPS computers only	0825 387 129
	Technical Support for all other Dell computers	0825 387 270
	Customer Care	0825 823 833
	Switchboard	0825 004 700
	Switchboard (calls from outside of France)	04 99 75 40 00
	Sales	0825 004 700
	Fax	0825 004 701
	Fax (calls from outside of France)	04 99 75 40 01
	Corporate	
	Technical Support	0825 004 719
	Customer Care	0825 338 339
Switchboard	01 55 94 71 00	
Sales	01 55 94 71 00	
Fax	01 55 94 71 01	
Germany (Langen) International Access Code: 00 Country Code: 49 City Code: 6103	Website: support.euro.dell.com	
	E-mail: tech_support_central_europe@dell.com	
	Technical Support for Inspiron XPS computers only	06103 766-7222
	Technical Support for all other Dell computers	06103 766-7200
	Home/Small Business Customer Care	0180-5-224400
	Global Segment Customer Care	06103 766-9570
	Preferred Accounts Customer Care	06103 766-9420
	Large Accounts Customer Care	06103 766-9560
	Public Accounts Customer Care	06103 766-9555
Greece	Switchboard	06103 766-7000
	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/gr/en/emaildell/	
	Technical Support	00800-44 14 95 18

International Access Code: 00 Country Code: 30	Gold Service Technical Support	00800-44 14 00 83
	Switchboard	2108129810
	Gold Service Switchboard	2108129811
	Sales	2108129800
	Fax	2108129812
Grenada	General Support	toll-free: 1-866-540-3355
Guatemala	General Support	1-800-999-0136
Guyana	General Support	toll-free: 1-877-270-4609
Hong Kong International Access Code: 001 Country Code: 852	Website: support.ap.dell.com	
	Technical Support E-mail: apsupport@dell.com	
	Technical Support (Dimension and Inspiron)	2969 3188
	Technical Support (OptiPlex, Latitude, and Dell Precision)	2969 3191
	Technical Support (PowerApp™, PowerEdge™, PowerConnect™, and PowerVault™)	2969 3196
	Customer Care	3416 0910
	Large Corporate Accounts	3416 0907
	Global Customer Programs	3416 0908
	Medium Business Division	3416 0912
	Home and Small Business Division	2969 3105
India	Technical Support	1600 33 8045
	Sales (Large Corporate Accounts)	1600 33 8044
	Sales (Home and Small Business)	1600 33 8046
Ireland (Cherrywood) International Access Code: 16 Country Code: 353 City Code: 1	Website: support.euro.dell.com	
	E-mail: dell_direct_support@dell.com	
	Technical Support for Inspiron XPS computers only	1850 200 722
	Technical Support for all other Dell computers	1850 543 543
	U.K. Technical Support (dial within U.K. only)	0870 908 0800
	Home User Customer Care	01 204 4014
	Small Business Customer Care	01 204 4014
	U.K. Customer Care (dial within U.K. only)	0870 906 0010
	Corporate Customer Care	1850 200 982
	Corporate Customer Care (dial within U.K. only)	0870 907 4499
	Ireland Sales	01 204 4444
	U.K. Sales (dial within U.K. only)	0870 907 4000
	Fax/Sales Fax	01 204 0103
Switchboard	01 204 4444	
Italy (Milan) International Access Code: 00 Country Code: 39 City Code: 02	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/it/it/emailldell/	
	Home and Small Business	
	Technical Support	02 577 826 90
	Customer Care	02 696 821 14
	Fax	02 696 821 13
	Switchboard	02 696 821 12
	Corporate	
	Technical Support	02 577 826 90
	Customer Care	02 577 825 55
	Fax	02 575 035 30
Switchboard	02 577 821	
Jamaica	General Support (dial from within Jamaica only)	1-800-682-3639
Japan (Kawasaki) International Access Code: 001	Website: support.jp.dell.com	
	Technical Support (servers)	toll-free: 0120-198-498
	Technical Support outside of Japan (servers)	81-44-556-4162
	Technical Support (Dimension and Inspiron)	toll-free: 0120-198-226
	Technical Support outside of Japan (Dimension and Inspiron)	81-44-520-1435
	Technical Support (Dell Precision, OptiPlex, and Latitude)	toll-free: 0120-198-433
	Technical Support outside of Japan (Dell Precision, OptiPlex, and Latitude)	81-44-556-3894
	Technical Support (PDAs, projectors, printers, routers)	toll-free: 0120-981-690
	Technical Support outside of Japan (PDAs, projectors, printers, routers)	81-44-556-3468

Country Code: 81 City Code: 44	Faxbox Service	044-556-3490
	24-Hour Automated Order Service	044-556-3801
	Customer Care	044-556-4240
	Business Sales Division (up to 400 employees)	044-556-1465
	Preferred Accounts Division Sales (over 400 employees)	044-556-3433
	Large Corporate Accounts Sales (over 3500 employees)	044-556-3430
	Public Sales (government agencies, educational institutions, and medical institutions)	044-556-1469
	Global Segment Japan	044-556-3469
	Individual User	044-556-1760
	Switchboard	044-556-4300
Korea (Seoul) International Access Code: 001 Country Code: 82 City Code: 2	Technical Support	toll-free: 080-200-3800
	Sales	toll-free: 080-200-3600
	Customer Service (Penang, Malaysia)	604 633 4949
	Fax	2194-6202
	Switchboard	2194-6000
Latin America	Technical Support (Electronics and Accessories)	toll-free: 080-200-3801
	Customer Technical Support (Austin, Texas, U.S.A.)	512 728-4093
	Customer Service (Austin, Texas, U.S.A.)	512 728-3619
	Fax (Technical Support and Customer Service) (Austin, Texas, U.S.A.)	512 728-3883
	Sales (Austin, Texas, U.S.A.)	512 728-4397
	SalesFax (Austin, Texas, U.S.A.)	512 728-4600 or 512 728-3772
Luxembourg International Access Code: 00 Country Code: 352	Website: support.euro.dell.com	
	E-mail: tech_be@dell.com	
	Technical Support (Brussels, Belgium)	3420808075
	Home/Small Business Sales (Brussels, Belgium)	toll-free: 080016884
	Corporate Sales (Brussels, Belgium)	02 481 91 00
	Customer Care (Brussels, Belgium)	02 481 91 19
	Fax (Brussels, Belgium)	02 481 92 99
	Switchboard (Brussels, Belgium)	02 481 91 00
Macao Country Code: 853	Technical Support	toll-free: 0800 105
	Customer Service (Xiamen, China)	34 160 910
	Transaction Sales (Xiamen, China)	29 693 115
Malaysia (Penang) International Access Code: 00 Country Code: 60 City Code: 4	Website: support.ap.dell.com	
	Technical Support (Dell Precision, OptiPlex, and Latitude)	toll-free: 1 800 88 0193
	Technical Support (Dimension, Inspiron, and Electronics and Accessories)	toll-free: 1 800 88 1306
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 88 1386
	Customer Service (Penang, Malaysia)	04 633 4949
	Transaction Sales	toll-free: 1 800 888 202
	Corporate Sales	toll-free: 1 800 888 213
Mexico International Access Code: 00 Country Code: 52	Customer Technical Support	001-877-384-8979 or 001-877-269-3383
	Sales	50-81-8800 or 01-800-888-3355
	Customer Service	001-877-384-8979 or 001-877-269-3383
	Main	50-81-8800 or 01-800-888-3355
	Montserrat	General Support
Netherlands Antilles	General Support	001-800-882-1519
Netherlands (Amsterdam) International Access Code: 00	Website: support.euro.dell.com	
	Technical Support for Inspiron XPS computers only	020 674 45 94
	Technical Support for all other Dell computers	020 674 45 00
	Technical Support Fax	020 674 47 66
	Home/Small Business Customer Care	020 674 42 00
	Relational Customer Care	020 674 4325

Country Code: 31 City Code: 20	Home/Small Business Sales	020 674 55 00
	Relational Sales	020 674 50 00
	Home/Small Business Sales Fax	020 674 47 75
	Relational Sales Fax	020 674 47 50
	Switchboard	020 674 50 00
	Switchboard Fax	020 674 47 50
New Zealand International Access Code: 00 Country Code: 64	E-mail (New Zealand): nz_tech_support@dell.com	
	E-mail (Australia): au_tech_support@dell.com	
	Technical Support (for desktop and portable computers)	toll-free: 0800 446 255
	Technical Support (for servers and workstations)	toll-free: 0800 443 563
	Home and Small Business	0800 446 255
	Government and Business	0800 444 617
	Sales	0800 441 567
Fax	0800 441 566	
Nicaragua	General Support	001-800-220-1006
Norway (Lysaker) International Access Code: 00 Country Code: 47	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/no/no/emaildell/	
	Technical Support	671 16882
	Relational Customer Care	671 17575
	Home/Small Business Customer Care	23162298
	Switchboard	671 16800
Fax Switchboard	671 16865	
Panama	General Support	001-800-507-0962
Peru	General Support	0800-50-669
Poland (Warsaw) International Access Code: 011 Country Code: 48 City Code: 22	Website: support.euro.dell.com	
	E-mail: pl_support_tech@dell.com	
	Customer Service Phone	57 95 700
	Customer Care	57 95 999
	Sales	57 95 999
	Customer Service Fax	57 95 806
	Reception Desk Fax	57 95 998
	Switchboard	57 95 999
Portugal International Access Code: 00 Country Code: 351	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/pt/en/emaildell/	
	Technical Support	707200149
	Customer Care	800 300 413
	Sales	800 300 410 or 800 300 411 or 800 300 412 or 21 422 07 10
	Fax	21 424 01 12
Puerto Rico	General Support	1-800-805-7545
St. Kitts and Nevis	General Support	toll-free: 1-877-441-4731
St. Lucia	General Support	1-800-882-1521
St. Vincent and the Grenadines	General Support	toll-free: 1-877-270-4609
Singapore (Singapore) International Access Code: 005 Country Code: 65	Website: support.ap.dell.com	
	Technical Support (Dimension, Inspiron, and Electronics and Accessories)	toll-free: 1800 394 7430
	Technical Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 394 7488
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 394 7478
	Customer Service (Penang, Malaysia)	604 633 4949
	Transaction Sales	toll-free: 1 800 394 7412
	Corporate Sales	toll-free: 1 800 394 7419
Slovakia (Prague) International Access Code: 00 Country Code: 421	Website: support.euro.dell.com	
	E-mail: czech_dell@dell.com	
	Technical Support	02 5441 5727
	Customer Care	420 22537 2707
	Fax	02 5441 8328
	Tech Fax	02 5441 8328
Switchboard (Sales)	02 5441 7585	
South Africa (Johannesburg)	Website: support.euro.dell.com	
	E-mail: dell_za_support@dell.com	

International Access Code:	Gold Queue	011 709 7713
09/091	Technical Support	011 709 7710
	Customer Care	011 709 7707
Country Code: 27	Sales	011 709 7700
City Code: 11	Fax	011 706 0495
	Switchboard	011 709 7700
Southeast Asian and Pacific Countries	Customer Technical Support, Customer Service, and Sales (Penang, Malaysia)	604 633 4810
Spain (Madrid) International Access Code: 00 Country Code: 34 City Code: 91	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/es/es/emaildell/	
	Home and Small Business	
	Technical Support	902 100 130
	Customer Care	902 118 540
	Sales	902 118 541
	Switchboard	902 118 541
	Fax	902 118 539
	Corporate	
	Technical Support	902 100 130
	Customer Care	902 115 236
	Switchboard	91 722 92 00
	Fax	91 722 95 83
Sweden (Upplands Vasby) International Access Code: 00 Country Code: 46 City Code: 8	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/se/sv/emaildell/	
	Technical Support	08 590 05 199
	Relational Customer Care	08 590 05 642
	Home/Small Business Customer Care	08 587 70 527
	Employee Purchase Program (EPP) Support	20 140 14 44
	Technical Support Fax	08 590 05 594
	Sales	08 590 05 185
Switzerland (Geneva) International Access Code: 00 Country Code: 41 City Code: 22	Website: support.euro.dell.com	
	E-mail: Tech_support_central_Europe@dell.com	
	E-mail for French-speaking HSB and Corporate Customers: support.euro.dell.com/ch/fr/emaildell/	
	Technical Support (Home and Small Business)	0844 811 411
	Technical Support (Corporate)	0844 822 844
	Customer Care (Home and Small Business)	0848 802 202
	Customer Care (Corporate)	0848 821 721
	Fax	022 799 01 90
Switchboard	022 799 01 01	
Taiwan International Access Code: 002 Country Code: 886	Website: support.ap.dell.com	
	E-mail: ap_support@dell.com	
	Technical Support (OptiPlex, Latitude, Inspiron, Dimension, and Electronics and Accessories)	toll-free: 00801 86 1011
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 00801 60 1256
	Transaction Sales	toll-free: 00801 65 1228
Corporate Sales	toll-free: 00801 651 227	
Thailand International Access Code: 001 Country Code: 66	Website: support.ap.dell.com	
	Technical Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 0060 07
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 0600 09
	Customer Service (Penang, Malaysia)	604 633 4949
	Corporate Sales	toll-free: 1800 006 009
	Transaction Sales	toll-free: 1800 006 006
Trinidad/Tobago	General Support	1-800-805-8035
Turks and Caicos Islands	General Support	toll-free: 1-866-540-3355
U.K. (Bracknell)	Website: support.euro.dell.com	
	Customer Care website: support.euro.dell.com/uk/en/ECare/Form/Home.asp	
	E-mail: dell_direct_support@dell.com	
	Technical Support (Corporate/Preferred Accounts/PAD [1000+ employees])	0870 908 0500
	Technical Support (direct and general)	0870 908 0800

International Access Code: 00 Country Code: 44 City Code: 1344	Global Accounts Customer Care	01344 373 186
	Home and Small Business Customer Care	0870 906 0010
	Corporate Customer Care	01344 373 185
	Preferred Accounts (500–5000 employees) Customer Care	0870 906 0010
	Central Government Customer Care	01344 373 193
	Local Government & Education Customer Care	01344 373 199
	Health Customer Care	01344 373 194
	Home and Small Business Sales	0870 907 4000
	Corporate/Public Sector Sales	01344 860 456
	Home and Small Business Fax	0870 907 4006
Uruguay	General Support	toll-free: 000-413-598-2521
U.S.A. (Austin, Texas) International Access Code: 011 Country Code: 1	Automated Order-Status Service	toll-free: 1-800-433-9014
	AutoTech (portable and desktop computers)	toll-free: 1-800-247-9362
	Consumer (Home and Home Office)	
	Technical Support	toll-free: 1-800-624-9896
	Customer Service	toll-free: 1-800-624-9897
	DellNet™ Service and Support	toll-free: 1-877-Dellnet (1-877-335-5638)
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
	Financial Services website: www.dellfinancialservices.com	
	Financial Services (lease/loans)	toll-free: 1-877-577-3355
	Financial Services (Dell Preferred Accounts [DPA])	toll-free: 1-800-283-2210
	Business	
	Customer Service and Technical Support	toll-free: 1-800-822-8965
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
	Printers and Projectors Technical Support	toll-free: 1-877-459-7298
	Public (government, education, and healthcare)	
	Customer Service and Technical Support	toll-free: 1-800-456-3355
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-234-1490
	Dell Sales	toll-free: 1-800-289-3355 or toll-free: 1-800-879-3355
	Dell Outlet Store (Dell refurbished computers)	toll-free: 1-888-798-7561
	Software and Peripherals Sales	toll-free: 1-800-671-3355
Spare Parts Sales	toll-free: 1-800-357-3355	
Extended Service and Warranty Sales	toll-free: 1-800-247-4618	
Fax	toll-free: 1-800-727-8320	
Dell Services for the Deaf, Hard-of-Hearing, or Speech-Impaired	toll-free: 1-877-DELLTTY (1-877-335-5889)	
U.S. Virgin Islands	General Support	1-877-673-3355
Venezuela	General Support	8001-3605

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Using the Dell Diagnostics


Dell™ Latitude™ X1 User's Guide

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 - [Starting the Dell Diagnostics From Your Hard Drive](#)
 - [Starting the Dell Diagnostics From the Drivers and Utilities CD](#)
 - [Dell Diagnostics Main Menu](#)
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When to Use the Dell Diagnostics

If you experience a problem with your computer, perform the checks in "[Solving Problems](#)" and run the Dell Diagnostics before you contact Dell for technical assistance.


It is recommended that you print these procedures before you begin.

 **NOTICE:** The Dell Diagnostics works only on Dell™ computers.

Start the Dell Diagnostics from either your hard drive or from the [Drivers and Utilities](#) CD (also known as the *ResourceCD*).

Starting the Dell Diagnostics From Your Hard Drive

The Dell Diagnostics is located on a hidden diagnostic utility partition on your hard drive.

 **NOTE:** If your computer cannot display a screen image, contact Dell.

1. Shut down the computer.
2. Turn on the computer. When the DELL™ logo appears, press <F12> immediately.


If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop. Then shut down your computer and try again.

3. When the boot device list appears, highlight **Diagnostics** and press <Enter>.

The computer runs the Pre-boot System Assessment, a series of initial tests of your system board, keyboard, hard drive, and display.

- 1 During the assessment, answer any questions that appear.
- 1 If a failure is detected, the computer stops and beeps. To stop the assessment and restart the computer, press <n>; to continue to the next test, press <y>; to retest the component that failed, press <r>.
- 1 If failures are detected during the Pre-boot System Assessment, write down the error code(s) and contact Dell before continuing on to the Dell Diagnostics.

If the Pre-boot System Assessment completes successfully, you receive the message *Booting Dell Diagnostic Utility Partition. Press any key to continue.*

 **NOTE:** If you see a message stating that no diagnostics utility partition has been found, run the Dell Diagnostics from your Drivers and Utilities CD.


4. Press any key to start the Dell Diagnostics from the diagnostics utility partition on your hard drive.
-

Starting the Dell Diagnostics From the Drivers and Utilities CD

1. Connect a CD drive to the system.
2. Insert the *Drivers and Utilities* CD.
3. Shut down and restart the computer.

When the DELL logo appears, press <F12> immediately.

If you wait too long and the Windows logo appears, continue to wait until you see the Windows desktop. Then shut down your computer and try again.

 **NOTE:** The next steps change the boot sequence for one time only. On the next start-up, the computer boots according to the devices specified in system setup.

4. When the boot device list appears, highlight **CD/DVD/CD-RW Drive** and press <Enter>.
5. Select the **CD/DVD/CD-RW Drive** option from the CD boot menu.
6. Select the **Boot from CD-ROM** option from the menu that appears.
7. Type 1 to start the ResourceCD menu.
8. Type 2 to start the Dell Diagnostics.
9. Select **Run the 32 Bit Dell Diagnostics** from the numbered list. If multiple versions are listed, select the version appropriate for your computer.
10. When the Dell Diagnostics **Main Menu** appears, select the test you want to run.


Dell Diagnostics Main Menu

1. After the Dell Diagnostics loads and the **Main Menu** screen appears, click the button for the option you want.

Option	Function
Express Test	Performs a quick test of devices. This test typically takes 10 to 20 minutes and requires no interaction on your part. Run Express Test first to increase the possibility of tracing the problem quickly.
Extended Test	Performs a thorough check of devices. This test typically takes 1 hour or more and requires you to answer questions periodically.
Custom Test	Tests a specific device. You can customize the tests you want to run.
Symptom Tree	Lists the most common symptoms encountered and allows you to select a test based on the symptom of the problem you are having.

2. If a problem is encountered during a test, a message appears with an error code and a description of the problem. Write down the error code and problem description and follow the instructions on the screen.

If you cannot resolve the error condition, contact Dell.

 **NOTE:** The Service Tag for your computer is located at the top of each test screen. If you contact Dell, technical support will ask for your Service Tag.

3. If you run a test from the **Custom Test** or **Symptom Tree** option, click the applicable tab described in the following table for more information.

Tab	Function
Results	Displays the results of the test and any error conditions encountered.
Errors	Displays error conditions encountered, error codes, and the problem description.
Help	Describes the test and may indicate requirements for running the test.
Configuration	Displays your hardware configuration for the selected device. The Dell Diagnostics obtains configuration information for all devices from system setup, memory, and various internal tests, and it displays the information in the device list in the left pane of the screen. The device list may not display the names of all the components installed on your computer or all devices attached to your computer.
Parameters	Allows you to customize the test by changing the test settings.

4. When the tests are completed, if you are running the Dell Diagnostics from the *Drivers and Utilities* CD, remove the CD.
5. When the tests are complete, close the test screen to return to the **Main Menu** screen. To exit the Dell Diagnostics and restart the computer, close the **Main Menu** screen.


Using the Display

Dell™ Latitude™ X1 User's Guide


- [Adjusting Brightness](#)
 - [Switching the Video Image](#)
 - [Setting Display Resolution](#)
 - [Dual Independent Display Mode](#)
 - [Swapping Primary and Secondary Displays](#)
-


Adjusting Brightness

When the Dell™ computer is running on battery power, you can conserve power by setting the brightness to the lowest comfortable setting by pressing <Fn> and the up- or down-arrow.

The Dell QuickSet Brightness Meter shows the current brightness setting for the display. Right-click the  icon in the taskbar to enable or disable the Brightness Meter on the screen.



 **NOTE:** By default, the Brightness Meter appears in the lower-right corner of the display. You can click and drag the meter to a new location, and the meter subsequently always appears at the new location.

 **NOTE:** Brightness key combinations only affect the display on your portable computer, not monitors that you attach to your portable computer. If your computer is connected to an external monitor and you try to change the brightness level, the Brightness Meter appears, but the brightness level on the monitor does not change.

You can enable or disable the Brightness Meter from the QuickSet taskbar menu. When the meter is enabled, press the following keys to adjust brightness:

- 1 Press <Fn> and the up-arrow key to increase brightness on the integrated display only (not on an external monitor).
- 1 Press <Fn> and the down-arrow key to decrease brightness on the integrated display only (not on an external monitor).

For more information about QuickSet, right-click the  icon in the taskbar and click **Help**.

Switching the Video Image


When you start the computer with an external device (such as an external monitor or projector) attached and turned on, the image may appear on either the computer display or the external device.

Press <Fn><F8> to switch the video image to the display only, the external device only, or the display and the external device simultaneously.

Setting Display Resolution

To display a program at a specific resolution, both the graphics card and the display must support the program, and the necessary video drivers must be installed.

Before you change any of the default display settings, make a note of the default settings for future reference.

 **NOTE:** Use only the Dell-installed video drivers, which are designed to offer the best performance with your Dell-installed operating system.

If you choose a resolution or color palette that is higher than the display supports, the settings adjust automatically to the closest possible setting.

Microsoft® Windows® XP


1. Click the **Start** button and click **Control Panel**.
 2. Under **Pick a category**, click **Appearance and Themes**.
 3. Under **Pick a task...**, click the area you want to change, or under **or pick a Control Panel icon**, click **Display**.
 4. Try different settings for **Color quality** and **Screen resolution**.
-

Dual Independent Display Mode

You can attach an external monitor or projector to your computer and use it as an extension of your display (known as "dual independent display" or "extended desktop" mode). This mode allows you to use both screens independently and drag objects from one screen to the other, effectively doubling the amount of viewable work space.

Microsoft Windows XP

1. Connect the external monitor, TV, or projector to the computer.
2. Under **Pick a category**, click **Appearance and Themes**.
3. Under **Pick a task...**, click the area you want to change, or under **or pick a Control Panel icon**, click **Display**.
4. In the **Display Properties** window, click the **Settings** tab.

 **NOTE:** If you choose a resolution or color palette that is higher than the display supports, the settings adjust automatically to the closest possible values. For more information, see your operating system documentation.


5. Click the monitor 2 icon, click the **Extend my Windows desktop...** check box, and then click **Apply**.
6. Change **Screen Area** to the appropriate sizes for both displays and click **Apply**.
7. If prompted to restart the computer, click **Apply the new color setting without restarting** and click **OK**.
8. If prompted, click **OK** to resize your desktop.
9. If prompted, click **Yes** to keep the settings.
10. Click **OK** to close the **Display Properties** window.

To disable dual independent display mode:

1. Click the **Settings** tab in the **Display Properties** window.
2. Click the monitor 2 icon, uncheck the **Extend my Windows desktop...** option, and then click **Apply**.

If necessary, press <Fn><F8> to bring the screen image back to the computer display.

Windows 2000

 **NOTE:** The Windows 2000 operating system may not be available in certain countries.

The Windows 2000 operating system does not natively support dual independent display (extended desktop) mode on your computer. However, you can download software from the Dell Support website at support.dell.com that lets your computer use two displays together to simulate dual independent display behavior.

Swapping Primary and Secondary Displays

To swap your primary and secondary display designations (for example, to use your external monitor as your primary display):

1. Click the **Start** button and click **Control Panel**.
2. Under **Pick a category**, click **Appearance and Themes**.
3. Under **Pick a task...**, click the area you want to change, or under **or pick a Control Panel icon**, click **Display**.
4. Click **Settings** tab→ **Advanced**→ **Displays** tab.

See the documentation that came with your video card for additional information.

Drivers

Dell™ Latitude™ X1 User's Guide


- [What Is a Driver?](#)
 - [Identifying Drivers](#)
-

What Is a Driver?

A driver is a program that controls a device such as a printer, mouse, or keyboard. All devices require a driver program.

A driver acts like a translator between the device and any other programs that use the device. Each device has its own set of specialized commands that only its driver recognizes.

Dell ships your computer to you with required drivers already installed—no further installation or configuration is needed.

 **NOTICE:** The Drivers and Utilities CD may contain drivers for operating systems that are not on your computer. Ensure that you are installing software appropriate for your operating system.

Many drivers, such as the keyboard driver, come with your Microsoft® Windows® operating system. You may need to install drivers if you:

- 1 Upgrade your operating system.
 - 1 Reinstall your operating system.
 - 1 Connect or install a new device.
-

Identifying Drivers


If you experience a problem with any device, identify whether the driver is the source of your problem and, if necessary, update the driver.

Windows XP

1. Click the **Start** button and click **Control Panel**.
2. Under **Pick a Category**, click **Performance and Maintenance**.
3. Click **System**.
4. In the **System Properties** window, click the **Hardware** tab.
5. Click **Device Manager**.
6. Scroll down the list to see if any device has an exclamation point (a yellow circle with a [!]) on the device icon.

If an exclamation point is next to the device name, you may need to [reinstall the driver](#) or install a new driver.

Reinstalling Drivers and Utilities

 **NOTICE:** The Dell Support website at support.dell.com and your Drivers and Utilities CD provide approved drivers for Dell™ computers. If you install drivers obtained from other sources, your computer might not work correctly.

Using Windows XP Device Driver Rollback

If a problem occurs on your computer after you install or update a driver, use Windows XP Device Driver Rollback to replace the driver with the previously installed version.

1. Click the **Start** button and click **Control Panel**.
2. Under **Pick a Category**, click **Performance and Maintenance**.
3. Click **System**.
4. In the **System Properties** window, click the **Hardware** tab.

5. Click **Device Manager**.
6. Right-click the device for which the new driver was installed and click **Properties**.
7. Click the **Drivers** tab.
8. Click **Roll Back Driver**.

If Device Driver Rollback does not resolve the problem, then use [System Restore](#) to return your computer to the operating state that existed before you installed the new driver.

Using the Drivers and Utilities CD

If using Device Driver Rollback or [System Restore](#) does not resolve the problem, then reinstall the driver from the *Drivers and Utilities* CD (also known as the *ResourceCD*).

1. Save and close any open files, and exit any open programs.
2. Insert the *Drivers and Utilities* CD.

In most cases, the CD starts running automatically. If it does not, start Windows Explorer, click your CD drive directory to display the CD contents, and then double-click the **autorcd.exe** file. The first time that you run the CD, it might prompt you to install setup files. Click **OK**, and follow the instructions on the screen to continue.

3. From the **Language** drop-down menu in the toolbar, select your preferred language for the driver or utility (if available). A welcome screen appears.
4. Click **Next**.

The CD automatically scans your hardware to detect drivers and utilities used by your computer.

5. After the CD completes the hardware scan, you can also detect other drivers and utilities. Under **Search Criteria**, select the appropriate categories from the **System Model**, **Operating System**, and **Topic** drop-down menus.

A link or links appear(s) for the specific drivers and utilities used by your computer.

6. Click the link of a specific driver or utility to display information about the driver or utility that you want to install.

7. Click the **Install** button (if present) to begin installing the driver or utility. At the welcome screen, follow the screen prompts to complete the installation.

If no **Install** button is present, automatic installation is not an option. For installation instructions, either see the appropriate instructions in the following subsections, or click **Extract**, follow the extracting instructions, and then read the readme file.

If instructed to navigate to the driver files, click the CD directory on the driver information window to display the files associated with that driver.

Manually Reinstalling Drivers




1. After extracting the driver files to your hard drive as described in the previous section, click the **Start** button and right-click **My Computer**.
2. Click **Properties**.
3. Click the **Hardware** tab and click **Device Manager**.
4. Double-click the type of device for which you are installing the driver (for example, **Modems** or **Infrared devices**).
5. Double-click the name of the device for which you are installing the driver.
6. Click the **Driver** tab and click **Update Driver**.
7. Click **Install from a list or specific location (Advanced)** and click **Next**.
8. Click **Browse** and browse to the location to which you previously extracted the driver files.
9. When the name of the appropriate driver appears, click **Next**.
10. Click **Finish** and restart your computer.



Finding Information

Dell™ Latitude™ X1 User's Guide

NOTE: Some features may not be available for your computer or in certain countries.

NOTE: Additional information may ship with your computer.

What Are You Looking For?	Find It Here
<ul style="list-style-type: none"> 1 A diagnostic program for my computer 1 Drivers for my computer 1 My computer documentation 1 My device documentation 1 Notebook System Software (NSS) 	<p>Drivers and Utilities CD (also known as ResourceCD)</p> <p>Documentation and drivers are already installed on your computer. You can use the CD to reinstall drivers, run the Dell Diagnostics.</p>  <p>Readme files may be included on your CD to provide last-minute updates about technical changes to your computer or advanced technical-reference material for technicians or experienced users.</p> <p>NOTE: Drivers and documentation updates can be found at support.dell.com.</p> <p>NOTE: The <i>Drivers and Utilities</i> CD is optional and may not ship with your computer.</p>
<ul style="list-style-type: none"> 1 How to set up my computer 1 Basic troubleshooting information 1 How to run the Dell Diagnostics 1 How to remove and install parts 	<p>Quick Reference Guide</p>  <p>NOTE: The <i>Quick Reference Guide</i> is optional and may not ship with your computer.</p> <p>NOTE: This document is available as a PDF at support.dell.com.</p>
<ul style="list-style-type: none"> 1 Warranty information 1 Terms and Conditions (U.S. only) 1 Safety instructions 1 Regulatory information 1 Ergonomics information 1 End User License Agreement 	<p>Dell™ Product Information Guide</p> 
<ul style="list-style-type: none"> 1 How to remove and replace parts 1 Specifications 1 How to configure system settings 1 How to troubleshoot and solve problems 	<p>User's Guide</p> <p>Microsoft® Windows® XP Help and Support Center</p> <ol style="list-style-type: none"> 1. Click the Start button and click Help and Support. 2. Click User's and system guides and click User's guides.

<ul style="list-style-type: none"> 1 Service Tag and Express Service Code 1 Microsoft Windows License Label 	<p>Service Tag and Microsoft Windows License</p> <p>These labels are located on the bottom of your computer.</p>  <ul style="list-style-type: none"> 1 Use the Service Tag to identify your computer when you use support.dell.com or contact technical support. 1 Enter the Express Service Code to direct your call when contacting technical support.
<ul style="list-style-type: none"> 1 Solutions — Troubleshooting hints and tips, articles from technicians, online courses, frequently asked questions 1 Community — Online discussion with other Dell customers 1 Upgrades — Upgrade information for components, such as memory, the hard drive, and the operating system 1 Customer Care — Contact information, service call and order status, warranty, and repair information 1 Service and support — Service call status and support history, service contract, online discussions with technical support 1 Reference — Computer documentation, details on my computer configuration, product specifications, and white papers 1 Downloads — Certified drivers, patches, and software updates 1 Notebook System Software (NSS)— If you reinstall the operating system for your computer, you should also reinstall the NSS utility. NSS provides critical updates for your operating system and support for Dell™ 3.5-inch USB floppy drives, Intel® Pentium® M processors, optical drives, and USB devices. NSS is necessary for correct operation of your Dell computer. The software automatically detects your computer and operating system and installs the updates appropriate for your configuration. <p>To download Notebook System Software:</p> <ul style="list-style-type: none"> 1. Go to support.dell.com and click Downloads. 2. Enter your Service Tag or product model. 3. In the Download Category drop-down menu, click All. 4. Select the operating system and operating system language for your computer, and click Submit. 5. Under Select a Device, scroll to System and Configuration Utilities, and click Dell Notebook System Software. 	<p>Dell Support Website — support.dell.com</p> <p>NOTE: Select your region to view the appropriate support site.</p> <p>NOTE: Corporate, government, and education customers can also use the customized Dell Premier Support website at premier.support.dell.com. The website may not be available in all regions.</p>
<ul style="list-style-type: none"> 1 How to use Windows XP 1 Documentation for my computer 1 Documentation for devices (such as a modem) 	<p>Windows Help and Support Center</p> <ul style="list-style-type: none"> 1. Click the Start button and click Help and Support. 2. Type a word or phrase that describes your problem and click the arrow icon. 3. Click the topic that describes your problem. 4. Follow the instructions on the screen.
<ul style="list-style-type: none"> 1 How to reinstall my operating system 	<p>Operating System CD</p> <p>The operating system is already installed on your computer. To reinstall your operating system, use the <i>Operating System CD</i>. See your <i>User's Guide</i> for instructions.</p> <p>After you reinstall your operating system, use the Drivers and Utilities CD to reinstall drivers for the devices that came with your computer.</p>  <p>Your operating system product key label is located on your computer.</p> <p>NOTE: The color of your CD varies based on the operating system you ordered.</p> <p>NOTE: The <i>Operating System CD</i> is optional and may not ship with your computer.</p>

Getting Help

Dell™ Latitude™ X1 User's Guide

- [Technical Assistance](#)
 - [Problems With Your Order](#)
 - [Product Information](#)
 - [Returning Items for Warranty Repair or Credit](#)
 - [Before You Call](#)
-

Technical Assistance

If you need help with a technical problem, Dell is ready to assist you.

⚠ CAUTION: If you need to remove the computer covers, first disconnect the computer power and modem cables from all electrical outlets.

1. Complete the procedures in "[Solving Problems](#)."
2. Run the [Using the Dell Diagnostics](#).
3. Make a copy of the [Diagnostics Checklist](#) and fill it out.
4. Use Dell's extensive suite of online services available at Dell Support (support.dell.com) for help with installation and troubleshooting procedures.
5. If the preceding steps have not resolved the problem, contact Dell.

NOTE: Call technical support from a telephone near or at the computer so that technical support can assist you with any necessary procedures.

NOTE: Dell's Express Service Code system may not be available in all countries.

When prompted by Dell's automated telephone system, enter your Express Service Code to route the call directly to the proper support personnel. If you do not have an Express Service Code, open the **Dell Accessories** folder, double-click the **Express Service Code** icon, and follow the directions.

For instructions on using the technical support service, see "[Technical Support Service](#)."

NOTE: Some of the following services are not always available in all locations outside the continental U.S. Call your local Dell representative for information on availability.

Online Services

You can access Dell Support at support.dell.com. Select your region on the **WELCOME TO DELL SUPPORT** page, and fill in the requested details to access help tools and information.

You can contact Dell electronically using the following addresses:

- 1 World Wide Web

www.dell.com/

www.dell.com/ap/ (Asian/Pacific countries only)

www.dell.com/jp (Japan only)

www.euro.dell.com (Europe only)

www.dell.com/la/ (Latin American countries)

www.dell.ca (Canada only)

- 1 Anonymous file transfer protocol (FTP)

[ftp.dell.com/](ftp://ftp.dell.com/)

Log in as user: `anonymous`, and use your e-mail address as your password.

- 1 Electronic Support Service

mobile_support@us.dell.com

support@us.dell.com

apsupport@dell.com (Asian/Pacific countries only)

support.jp.dell.com (Japan only)

support.euro.dell.com (Europe only)

1 Electronic Quote Service

sales@dell.com

apmarketing@dell.com (Asian/Pacific countries only)

sales_canada@dell.com (Canada only)

1 Electronic Information Service

info@dell.com

AutoTech Service

Dell's automated technical support service—AutoTech—provides recorded answers to the questions most frequently asked by Dell customers about their portable and desktop computers.

When you call AutoTech, use your touch-tone telephone to select the subjects that correspond to your questions.

The AutoTech service is available 24 hours a day, 7 days a week. You can also access this service through the technical support service. For the telephone number to call, see the contact numbers for your region.

Automated Order-Status Service

To check on the status of any Dell™ products that you have ordered, you can go to **support.dell.com**, or you can call the automated order-status service. A recording prompts you for the information needed to locate and report on your order. For the telephone number to call, see the contact numbers for your region.

Technical Support Service

Dell's technical support service is available 24 hours a day, 7 days a week, to answer your questions about Dell hardware. Our technical support staff uses computer-based diagnostics to provide fast, accurate answers.

To contact Dell's technical support service, see "[Getting Help](#)" and then call the number for your country as listed in "[Contacting Dell](#)."

Problems With Your Order

If you have a problem with your order, such as missing parts, wrong parts, or incorrect billing, contact Dell for customer assistance. Have your invoice or packing slip handy when you call. For the telephone number to call, see the contact numbers for your region.

Product Information

If you need information about additional products available from Dell, or if you would like to place an order, visit the Dell website at **www.dell.com**. For the telephone number to call to speak to a sales specialist, see the contact numbers for your region.

Returning Items for Warranty Repair or Credit

Prepare all items being returned, whether for repair or credit, as follows:

1. Call Dell to obtain a Return Material Authorization Number, and write it clearly and prominently on the outside of the box.
For the telephone number to call, see the contact numbers for your region.
2. Include a copy of the invoice and a letter describing the reason for the return.
3. Include a copy of the [Diagnostics Checklist](#) indicating the tests you have run and any error messages reported by the Dell Diagnostics.
4. Include any accessories that belong with the item(s) being returned (power cables, software floppy disks, guides, and so on) if the return is for credit.
5. Pack the equipment to be returned in the original (or equivalent) packing materials.


You are responsible for paying shipping expenses. You are also responsible for insuring any product returned, and you assume the risk of loss during shipment to Dell. Collect On Delivery (C.O.D.) packages are not accepted.

Returns that are missing any of the preceding requirements will be refused at Dell's receiving dock and returned to you.

Before You Call

NOTE: Have your Express Service Code ready when you call. The code helps Dell's automated-support telephone system direct your call more efficiently.

Remember to fill out the [Diagnostics Checklist](#). If possible, turn on your computer before you call Dell for technical assistance and call from a telephone at or near the computer. You may be asked to type some commands at the keyboard, relay detailed information during operations, or try other troubleshooting steps possible only at the computer itself. Ensure that the computer documentation is available.

 **CAUTION:** Before working inside your computer, read the safety instructions in your *Product Information Guide*.

Diagnostics Checklist
Name:
Date:
Address:
Phone number:
Service Tag (bar code on the back of the computer):
Express Service Code:
Return Material Authorization Number (if provided by Dell support technician):
Operating system and version:
Devices:
Expansion cards:
Are you connected to a network? Yes No
Network, version, and network adapter:
Programs and versions:
See your operating system documentation to determine the contents of the system's start-up files. If the computer is connected to a printer, print each file. Otherwise, record the contents of each file before calling Dell.
Error message, beep code, or diagnostic code:
Description of problem and troubleshooting procedures you performed:

Glossary

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Z](#)

Terms in this Glossary are provided for informational purposes only and may or may not describe features included with your particular computer.

A

AC — alternating current — The form of electricity that powers your computer when you plug the AC adapter power cable in to an electrical outlet.

ACPI — advanced configuration and power interface — A power management specification that enables Microsoft® Windows® operating systems to put a computer in standby or hibernate mode to conserve the amount of electrical power allocated to each device attached to the computer.

AGP — accelerated graphics port — A dedicated graphics port that allows system memory to be used for video-related tasks. AGP delivers a smooth, true-color video image because of the faster interface between the video circuitry and the computer memory.

antivirus software — A program designed to identify, quarantine, and/or delete viruses from your computer.

APR — advanced port replicator — A docking device that allows you to conveniently use an external monitor, keyboard, mouse, and other devices with your portable computer.

ASF — alert standards format — A standard to define a mechanism for reporting hardware and software alerts to a management console. ASF is designed to be platform- and operating system-independent.

B

backup — A copy of a program or data file on a floppy, CD, DVD, or hard drive. As a precaution, back up the data files from your hard drive regularly.

battery — A rechargeable internal power source used to operate portable computers when not connected to an AC adapter and an electrical outlet.

battery life span — The length of time (years) during which a portable computer battery is able to be depleted and recharged.

battery operating time — The length of time (minutes or hours) that a portable computer battery holds a charge while powering the computer.

BIOS — basic input/output system — A program (or utility) that serves as an interface between the computer hardware and the operating system. Unless you understand what effect these settings have on the computer, do not change them. Also referred to as *system setup*.

bit — The smallest unit of data interpreted by your computer.

Bluetooth® wireless technology — A wireless technology standard for short-range (9 m [29 feet]) networking devices that allows for enabled devices to automatically recognize each other.

boot sequence — Specifies the order of the devices from which the computer attempts to boot.

bootable CD — A CD that you can use to start your computer. In case your hard drive is damaged or your computer has a virus, ensure that you always have a bootable CD or floppy disk available. Your *Drivers and Utilities* or Resource CD is a bootable CD.

bootable disk — A disk that you can use to start your computer. In case your hard drive is damaged or your computer has a virus, ensure that you always have a bootable CD or floppy disk available.

bps — bits per second — The standard unit for measuring data transmission speed.

BTU — British thermal unit — A measurement of heat output.

bus — A communication pathway between the components in your computer.

bus speed — The speed, given in MHz, that indicates how fast a bus can transfer information.

byte — The basic data unit used by your computer. A byte is usually equal to 8 bits.

C

C — Celsius — A temperature measurement scale where 0° is the freezing point and 100° is the boiling point of water.

cache — A special high-speed storage mechanism which can be either a reserved section of main memory or an independent high-speed storage device. The cache enhances the efficiency of many processor operations.

L1 cache — Primary cache stored inside the processor.

L2 cache — Secondary cache which can either be external to the processor or incorporated into the processor architecture.

carnet — An international customs document that facilitates temporary imports into foreign countries. Also known as a *merchandise passport*.

CD — compact disc — An optical form of storage media, typically used for audio and software programs.

CD drive — A drive that uses optical technology to read data from CDs.

CD player — The software used to play music CDs. The CD player displays a window with buttons that you use to play a CD.

CD-R — CD recordable — A recordable version of a CD. Data can be recorded only once onto a CD-R. Once recorded, the data cannot be erased or written over.

CD-RW — CD rewritable — A rewritable version of a CD. Data can be written to a CD-RW disc, and then erased and written over (rewritten).

CD-RW drive — A drive that can read CDs and write to CD-RW (rewritable CDs) and CD-R (recordable CDs) discs. You can write to CD-RW discs multiple times, but you can write to CD-R discs only once.

CD-RW/DVD drive — A drive, sometimes referred to as a combo drive, that can read CDs and DVDs and write to CD-RW (rewritable CDs) and CD-R (recordable CDs) discs. You can write to CD-RW discs multiple times, but you can write to CD-R discs only once.

clock speed — The speed, given in MHz, that indicates how fast computer components that are connected to the system bus operate.

COA — Certificate of Authenticity — The Windows alpha-numeric code located on a sticker on your computer. Also referred to as the *Product Key* or *Product ID*.

Control Panel — A Windows utility that allows you to modify operating system and hardware settings, such as display settings.

controller — A chip that controls the transfer of data between the processor and memory or between the processor and devices.

CRIMM — continuity rambus in-line memory module — A special module that has no memory chips and is used to fill unused RIMM slots.

cursor — The marker on a display or screen that shows where the next keyboard, touch pad, or mouse action will occur. It often is a blinking solid line, an underline character, or a small arrow.

D

DDR SDRAM — double-data-rate SDRAM — A type of SDRAM that doubles the data burst cycle, improving system performance.

DDR2 SDRAM — double-data-rate 2 SDRAM — A type of DDR SDRAM that uses a 4-bit prefetch and other architectural changes to boost memory speed to over 400 MHz.

device — Hardware such as a disk drive, printer, or keyboard that is installed in or connected to your computer.

device driver — See *driver*.

DIN connector — A round, six-pin connector that conforms to DIN (Deutsche Industrie-Norm) standards; it is typically used to connect PS/2 keyboard or mouse cable connectors.

disk striping — A technique for spreading data over multiple disk drives. Disk striping can speed up operations that retrieve data from disk storage. Computers that use disk striping generally allow the user to select the data unit size or stripe width.

DMA — direct memory access — A channel that allows certain types of data transfer between RAM and a device to bypass the processor.

docking device — See *APR*.

DMTF — Distributed Management Task Force — A consortium of hardware and software companies who develop management standards for distributed desktop, network, enterprise, and Internet environments.

domain — A group of computers, programs, and devices on a network that are administered as a unit with common rules and procedures for use by a specific group of users. A user logs on to the domain to gain access to the resources.

DRAM — dynamic random-access memory — Memory that stores information in integrated circuits containing capacitors.

driver — Software that allows the operating system to control a device such as a printer. Many devices do not work properly if the correct driver is not installed in the computer.

DSL — Digital Subscriber Line — A technology that provides a constant, high-speed Internet connection through an analog telephone line.

dual display mode — A display setting that allows you to use a second monitor as an extension of your display. Also referred to as *extended display mode*.

DVD — digital versatile disc — A high-capacity disc usually used to store movies. DVD drives read most CD media as well.

DVD drive — A drive that uses optical technology to read data from DVDs and CDs.

DVD player — The software used to watch DVD movies. The DVD player displays a window with buttons that you use to watch a movie.

DVD-R — DVD recordable — A recordable version of a DVD. Data can be recorded only once onto a DVD-R. Once recorded, the data cannot be erased or written over.

DVD+RW — DVD rewritable — A rewritable version of a DVD. Data can be written to a DVD+RW disc, and then erased and written over (rewritten). (DVD+RW technology is different from DVD-RW technology.)

DVD+RW drive — drive that can read DVDs and most CD media and write to DVD+RW (rewritable DVDs) discs.

DVI — digital video interface — A standard for digital transmission between a computer and a digital video display.

E

- ECC** — error checking and correction — A type of memory that includes special circuitry for testing the accuracy of data as it passes in and out of memory.
- ECP** — extended capabilities port — A parallel connector design that provides improved bidirectional data transmission. Similar to EPP, ECP uses direct memory access to transfer data and often improves performance.
- EIDE** — enhanced integrated device electronics — An improved version of the IDE interface for hard drives and CD drives.
- EMI** — electromagnetic interference — Electrical interference caused by electromagnetic radiation.
- ENERGY STAR®** — Environmental Protection Agency requirements that decrease the overall consumption of electricity.
- EPP** — enhanced parallel port — A parallel connector design that provides bidirectional data transmission.
- ESD** — electrostatic discharge — A rapid discharge of static electricity. ESD can damage integrated circuits found in computer and communications equipment.
- expansion card** — A circuit board that installs in an expansion slot on the system board in some computers, expanding the capabilities of the computer. Examples include video, modem, and sound cards.
- expansion slot** — A connector on the system board (in some computers) where you insert an expansion card, connecting it to the system bus.
- Express Service Code** — A numeric code located on a sticker on your Dell™ computer. Use the Express Service Code when contacting Dell for assistance. Express Service Code service may not be available in some countries.
- extended display mode** — A display setting that allows you to use a second monitor as an extension of your display. Also referred to as *dual display mode*.
- extended PC Card** — A PC Card that extends beyond the edge of the PC Card slot when installed.
-

F

- Fahrenheit** — A temperature measurement scale where 32° is the freezing point and 212° is the boiling point of water.
- FCC** — Federal Communications Commission — A U.S. agency responsible for enforcing communications-related regulations that state how much radiation computers and other electronic equipment can emit.
- floppy** — An electromagnetic form of storage media. Also known as a floppy diskette or a floppy disk.
- floppy drive** — A disk drive that can read and write to floppy disks.
- folder** — A term used to describe space on a disk or drive where files are organized and grouped. Files in a folder can be viewed and ordered in various ways, such as alphabetically, by date, and by size.
- format** — The process that prepares a drive or disk for file storage. When a drive or disk is formatted, the existing information on it is lost.
- FSB** — front side bus — The data path and physical interface between the processor and RAM.
- FTP** — file transfer protocol — A standard Internet protocol used to exchange files between computers connected to the Internet.
-

G

- G** — gravity — A measurement of weight and force.
- GB** — gigabyte — A measurement of data storage that equals 1024 MB (1,073,741,824 bytes). When used to refer to hard drive storage, the term is often rounded to 1,000,000,000 bytes.
- GHz** — gigahertz — A measurement of frequency that equals one thousand million Hz, or one thousand MHz. The speeds for computer processors, buses, and interfaces are often measured in GHz.
- graphics mode** — A video mode that can be defined as x horizontal pixels by y vertical pixels by z colors. Graphics modes can display an unlimited variety of shapes and fonts.
- GUI** — graphical user interface — Software that interacts with the user by means of menus, windows, and icons. Most programs that operate on the Windows operating systems are GUIs.
-

H

- hard drive** — A drive that reads and writes data on a hard disk. The terms hard drive and hard disk are often used interchangeably.
- heat sink** — A metal plate on some processors that helps dissipate heat.
- help file** — A file that contains descriptive or instructional information about a product. Some help files are associated with a particular program, such as *Help* in Microsoft Word. Other help files function as stand-alone reference sources. Help files typically have a filename extension of **.hlp** or **.chm**.
- hibernate mode** — A power management mode that saves everything in memory to a reserved space on the hard drive and then turns off the computer. When you restart the computer, the memory information that was saved to the hard drive is automatically restored.

HTML — hypertext markup language — A set of codes inserted into an Internet web page intended for display on an Internet browser.

HTTP — hypertext transfer protocol — A protocol for exchanging files between computers connected to the Internet.

Hz — hertz — A unit of frequency measurement that equals 1 cycle per second. Computers and electronic devices are often measured in kilohertz (kHz), megahertz (MHz), gigahertz (GHz), or terahertz (THz).

I

IC — Industry Canada — The Canadian regulatory body responsible for regulating emissions from electronic equipment, much as the FCC does in the United States.

IC — integrated circuit — A semiconductor wafer, or chip, on which thousands or millions of tiny electronic components are fabricated for use in computer, audio, and video equipment.

IDE — integrated device electronics — An interface for mass storage devices in which the controller is integrated into the hard drive or CD drive.

IEEE 1394 — Institute of Electrical and Electronics Engineers, Inc. — A high-performance serial bus used to connect IEEE 1394-compatible devices, such as digital cameras and DVD players, to the computer.

infrared sensor — A port that allows you to transfer data between the computer and infrared-compatible devices without using a cable connection.

integrated — Usually refers to components that are physically located on the computer's system board. Also referred to as *built-in*.

I/O — input/output — An operation or device that enters and extracts data from your computer. Keyboards and printers are I/O devices.

I/O address — An address in RAM that is associated with a specific device (such as a serial connector, parallel connector, or expansion slot) and allows the processor to communicate with that device.

IrDA — Infrared Data Association — The organization that creates international standards for infrared communications.

IRQ — interrupt request — An electronic pathway assigned to a specific device so that the device can communicate with the processor. Each device connection must be assigned an IRQ. Although two devices can share the same IRQ assignment, you cannot operate both devices simultaneously.

ISP — Internet service provider — A company that allows you to access its host server to connect directly to the Internet, send and receive e-mail, and access websites. The ISP typically provides you with a software package, user name, and access phone numbers for a fee.

K

Kb — kilobit — A unit of data that equals 1024 bits. A measurement of the capacity of memory integrated circuits.

KB — kilobyte — A unit of data that equals 1024 bytes but is often referred to as 1000 bytes.

key combination — A command requiring you to press multiple keys at the same time.

kHz — kilohertz — A measurement of frequency that equals 1000 Hz.

L

LAN — local area network — A computer network covering a small area. A LAN usually is confined to a building or a few nearby buildings. A LAN can be connected to another LAN over any distance through telephone lines and radio waves to form a wide area network (WAN).

LCD — liquid crystal display — The technology used by portable computer and flat-panel displays.

LED — light-emitting diode — An electronic component that emits light to indicate the status of the computer.

local bus — A data bus that provides a fast throughput for devices to the processor.

LPT — line print terminal — The designation for a parallel connection to a printer or other parallel device.

M

Mb — megabit — A measurement of memory chip capacity that equals 1024 Kb.

Mbps — megabits per second — One million bits per second. This measurement is typically used for transmission speeds for networks and modems.

MB — megabyte — A measurement of data storage that equals 1,048,576 bytes. 1 MB equals 1024 KB. When used to refer to hard drive storage, the term is often rounded to 1,000,000 bytes.

MB/sec — megabytes per second — One million bytes per second. This measurement is typically used for data transfer ratings.

memory — A temporary data storage area inside your computer. Because the data in memory is not permanent, it is recommended that you frequently save your files while you are working on them, and always save your files before you shut down the computer. Your computer can contain several different forms of memory, such as RAM, ROM, and video memory. Frequently, the word memory is used as a synonym for RAM.

memory address — A specific location where data is temporarily stored in RAM.

memory mapping — The process by which the computer assigns memory addresses to physical locations at start-up. Devices and software can then identify information that the processor can access.

memory module — A small circuit board containing memory chips, which connects to the system board.

MHz — megahertz — A measure of frequency that equals 1 million cycles per second. The speeds for computer processors, buses, and interfaces are often measured in MHz.

modem — A device that allows your computer to communicate with other computers over analog telephone lines. Three types of modems include: external, PC Card, and internal. You typically use your modem to connect to the Internet and exchange e-mail.

module bay — A bay that supports devices such as optical drives, a second battery, or a Dell TravelLite™ module.

monitor — The high-resolution TV-like device that displays computer output.

mouse — A pointing device that controls the movement of the cursor on your screen. Typically you roll the mouse over a hard, flat surface to move the pointer or cursor on your screen.

ms — millisecond — A measure of time that equals one thousandth of a second. Access times of storage devices are often measured in ms.

N

network adapter — A chip that provides network capabilities. A computer may include a network adapter on its system board, or it may contain a PC Card with an adapter on it. A network adapter is also referred to as a *NIC* (network interface controller).

NIC — See *network adapter*.

notification area — The section of the Windows taskbar that contains icons for providing quick access to programs and computer functions, such as the clock, volume control, and print status. Also referred to as *system tray*.

ns — nanosecond — A measure of time that equals one billionth of a second.

NVRAM — nonvolatile random access memory — A type of memory that stores data when the computer is turned off or loses its external power source. NVRAM is used for maintaining computer configuration information such as date, time, and other system setup options that you can set.

O

optical drive — A drive that uses optical technology to read or write data from CDs, DVDs, or DVD-RWs. Example of optical drives include CD drives, DVD drives, CD-RW drives, and CD-RW/DVD combo drives.

P

parallel connector — An I/O port often used to connect a parallel printer to your computer. Also referred to as an *LPT port*.

partition — A physical storage area on a hard drive that is assigned to one or more logical storage areas known as logical drives. Each partition can contain multiple logical drives.

PC Card — A removable I/O card adhering to the PCMCIA standard. Modems and network adapters are common types of PC Cards.

PCI — peripheral component interconnect — PCI is a local bus that supports 32-and 64-bit data paths, providing a high-speed data path between the processor and devices such as video, drives, and networks.

PCI Express — A modification to the PCI interface that boosts the data transfer rate between the processor and the devices attached to it. PCI Express can transfer data at speeds from 250 MB/sec to 4 GB/sec. If the PCI Express chip set and the device are capable of different speeds, they will operate at the slower speed.

PCMCIA — Personal Computer Memory Card International Association — The organization that establishes standards for PC Cards.

PIN — personal identification number — A sequence of numerals and/or letters used to restrict unauthorized access to computer networks and other secure systems.

PIO — programmed input/output — A method of transferring data between two devices through the processor as part of the data path.

pixel — A single point on a display screen. Pixels are arranged in rows and columns to create an image. A video resolution, such as 800 x 600, is expressed as the number of pixels across by the number of pixels up and down.

Plug-and-Play — The ability of the computer to automatically configure devices. Plug and Play provides automatic installation, configuration, and compatibility with existing hardware if the BIOS, operating system, and all devices are Plug and Play compliant.

POST — power-on self-test — Diagnostics programs, loaded automatically by the BIOS, that perform basic tests on the major computer components, such as memory, hard drives, and video. If no problems are detected during POST, the computer continues the start-up.

processor — A computer chip that interprets and executes program instructions. Sometimes the processor is referred to as the CPU (central processing unit).

program — Any software that processes data for you, including spreadsheet, word processor, database, and game packages. Programs require an operating system to run.

PS/2 — personal system/2 — A type of connector for attaching a PS/2-compatible keyboard, mouse, or keypad.

PXE — pre-boot execution environment — A WfM (Wired for Management) standard that allows networked computers that do not have an operating system to be configured and started remotely.

R

RAID — redundant array of independent disks — A method of providing data redundancy. Some common implementations of RAID include RAID 0, RAID 1, RAID 5, RAID 10, and RAID 50.

RAM — random-access memory — The primary temporary storage area for program instructions and data. Any information stored in RAM is lost when you shut down your computer.

readme file — A text file included with a software package or hardware product. Typically, readme files provide installation information and describe new product enhancements or corrections that have not yet been documented.

read-only — Data and/or files you can view but cannot edit or delete. A file can have read-only status if:

- o It resides on a physically write-protected floppy disk, CD, or DVD.
- o It is located on a network in a directory and the system administrator has assigned rights only to specific individuals.

refresh rate — The frequency, measured in Hz, at which your screen's horizontal lines are recharged (sometimes also referred to as its *vertical frequency*). The higher the refresh rate, the less video flicker can be seen by the human eye.

resolution — The sharpness and clarity of an image produced by a printer or displayed on a monitor. The higher the resolution, the sharper the image.

RFI — radio frequency interference — Interference that is generated at typical radio frequencies, in the range of 10 kHz to 100,000 MHz. Radio frequencies are at the lower end of the electromagnetic frequency spectrum and are more likely to have interference than the higher frequency radiations, such as infrared and light.

ROM — read-only memory — Memory that stores data and programs that cannot be deleted or written to by the computer. ROM, unlike RAM, retains its contents after you shut down your computer. Some programs essential to the operation of your computer reside in ROM.

RPM — revolutions per minute — The number of rotations that occur per minute. Hard drive speed is often measured in rpm.

RTC — real time clock — Battery-powered clock on the system board that keeps the date and time after you shut down the computer.

RTCST — real-time clock reset — A jumper on the system board of some computers that can often be used for troubleshooting problems.

S

ScanDisk — A Microsoft utility that checks files, folders, and the hard disk's surface for errors. ScanDisk often runs when you restart the computer after it has stopped responding.

SDRAM — synchronous dynamic random-access memory — A type of DRAM that is synchronized with the optimal clock speed of the processor.

serial connector — An I/O port often used to connect devices such as a handheld digital device or digital camera to your computer.

Service Tag — A bar code label on your computer that identifies your computer when you access Dell Support at support.dell.com or when you call Dell for customer service or technical support.

setup program — A program that is used to install and configure hardware and software. The **setup.exe** or **install.exe** program comes with most Windows software packages. *Setup program* differs from *system setup*.

shortcut — An icon that provides quick access to frequently used programs, files, folders, and drives. When you place a shortcut on your Windows desktop and double-click the icon, you can open its corresponding folder or file without having to find it first. Shortcut icons do not change the location of files. If you delete a shortcut, the original file is not affected. Also, you can rename a shortcut icon.

shutdown — The process of closing windows and exiting programs, exiting the operating system, and turning off your computer. You can lose data if you turn off your computer before completing a shutdown.

smart card — A card that is embedded with a processor and a memory chip. Smart cards can be used to authenticate a user on computers equipped for smart cards.

software — Anything that can be stored electronically, such as computer files or programs.

S/PDIF — Sony/Philips Digital Interface — An audio transfer file format that allows the transfer of audio from one file to another without converting it to and from an analog format, which could degrade the quality of the file.

standby mode — A power management mode that shuts down all unnecessary computer operations to save energy.

Strike Zone™ — Reinforced area of the platform base that protects the hard drive by acting as a dampening device when a computer experiences resonating shock or is dropped (whether the computer is on or off).

surge protectors — Prevent voltage spikes, such as those that may occur during an electrical storm, from entering the computer through the electrical outlet. Surge protectors do not protect against lightning strikes or against brownouts, which occur when the voltage drops more than 20 percent below the normal AC-line voltage level.

Network connections cannot be protected by surge protectors. Always disconnect the network cable from the network connector during electrical storms.

SVGA — super-video graphics array — A video standard for video cards and controllers. Typical SVGA resolutions are 800 x 600 and 1024 x 768.

The number of colors and resolution that a program displays depends on the capabilities of the monitor, the video controller and its drivers, and the amount of video memory installed in the computer.

S-video TV-out — A connector used to attach a TV or digital audio device to the computer.

SXGA — super-extended graphics array — A video standard for video cards and controllers that supports resolutions up to 1280 x 1024.

SXGA+ — super-extended graphics array plus — A video standard for video cards and controllers that supports resolutions up to 1400 x 1050.

system board — The main circuit board in your computer. Also known as the *motherboard*.

system setup — A utility that serves as an interface between the computer hardware and the operating system. System setup allows you to configure user-selectable options in the BIOS, such as date and time or system password. Unless you understand what effect the settings have on the computer, do not change the settings for this program.

system tray — See *notification area*.

T

TAPI — telephony application programming interface — Enables Windows programs to operate with a wide variety of telephony devices, including voice, data, fax, and video.

text editor — A program used to create and edit files that contain only text; for example, Windows Notepad uses a text editor. Text editors do not usually provide word wrap or formatting functionality (the option to underline, change fonts, and so on).

travel module — A plastic device designed to fit inside the module bay of a portable computer to reduce the weight of the computer.

U

UMA — unified memory allocation — System memory dynamically allocated to video.

UPS — uninterruptible power supply — A backup power source used when the electrical power fails or drops to an unacceptable voltage level. A UPS keeps a computer running for a limited amount of time when there is no electrical power. UPS systems typically provide surge suppression and may also provide voltage regulation. Small UPS systems provide battery power for a few minutes to enable you to shut down your computer.

USB — universal serial bus — A hardware interface for a low-speed device such as a USB-compatible keyboard, mouse, joystick, scanner, set of speakers, printer, broadband devices (DSL and cable modems), imaging devices, or storage devices. Devices are plugged directly in to a 4-pin socket on your computer or in to a multi-port hub that plugs in to your computer. USB devices can be connected and disconnected while the computer is turned on, and they can also be daisy-chained together.

UTP — unshielded twisted pair — Describes a type of cable used in most telephone networks and some computer networks. Pairs of unshielded wires are twisted to protect against electromagnetic interference, rather than relying on a metal sheath around each pair of wires to protect against interference.

UXGA — ultra extended graphics array — A video standard for video cards and controllers that supports resolutions up to 1600 x 1200.

V

video controller — The circuitry on a video card or on the system board (in computers with an integrated video controller) that provides the video capabilities—in combination with the monitor—for your computer.

video memory — Memory that consists of memory chips dedicated to video functions. Video memory is usually faster than system memory. The amount of video memory installed primarily influences the number of colors that a program can display.

video mode — A mode that describes how text and graphics are displayed on a monitor. Graphics-based software, such as Windows operating systems, displays in video modes that can be defined as *x* horizontal pixels by *y* vertical pixels by *z* colors. Character-based software, such as text editors, displays in video modes that can be defined as *x* columns by *y* rows of characters.

video resolution — See *resolution*.

virus — A program that is designed to inconvenience you or to destroy data stored on your computer. A virus program moves from one computer to another through an infected disk, software downloaded from the Internet, or e-mail attachments. When an infected program starts, its embedded virus also starts.

A common type of virus is a boot virus, which is stored in the boot sectors of a floppy disk. If the floppy disk is left in the drive when the computer is shut down and then turned on, the computer is infected when it reads the boot sectors of the floppy disk expecting to find the operating system. If the computer is infected, the boot virus may replicate itself onto all the floppy disks that are read or written in that computer until the virus is eradicated.

V — volt — The measurement of electric potential or electromotive force. One V appears across a resistance of 1 ohm when a current of 1 ampere flows through that resistance.

W

W — watt — The measurement of electrical power. One W is 1 ampere of current flowing at 1 volt.

WHR — watt-hour — A unit of measure commonly used to indicate the approximate capacity of a battery. For example, a 66-WHR battery can supply 66 W of power for 1 hour or 33 W for 2 hours.

wallpaper — The background pattern or picture on the Windows desktop. Change your wallpaper through the Windows Control Panel. You can also scan in your favorite picture and make it wallpaper.

write-protected — Files or media that cannot be changed. Use write-protection when you want to protect data from being changed or destroyed. To write-protect a 3.5-inch floppy disk, slide its write-protect tab to the open position.

WXGA — wide-aspect extended graphics array — A video standard for video cards and controllers that supports resolutions up to 1280 x 800."

X

XGA — extended graphics array — A video standard for video cards and controllers that supports resolutions up to 1024 x 768.

Z

ZIF — zero insertion force — A type of socket or connector that allows a computer chip to be installed or removed with no stress applied to either the chip or its socket.

Zip — A popular data compression format. Files that have been compressed with the Zip format are called Zip files and usually have a filename extension of **.zip**. A special kind of zipped file is a self-extracting file, which has a filename extension of **.exe**. You can unzip a self-extracting file by double-clicking it.

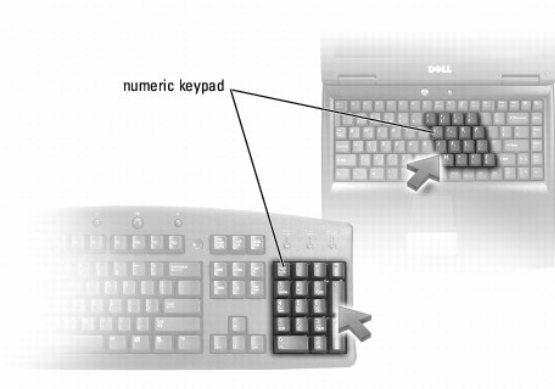
Zip drive — A high-capacity floppy drive developed by Iomega Corporation that uses 3.5-inch removable disks called Zip disks. Zip disks are slightly larger than regular floppy disks, about twice as thick, and hold up to 100 MB of data.

Using the Keyboard and Touch Pad


Dell™ Latitude™ X1 User's Guide

- [Numeric Keypad](#)
- [Key Combinations](#)
- [Touch Pad](#)

Numeric Keypad



The numeric keypad functions like the numeric keypad on an external keyboard. Each key on the keypad has multiple functions. The keypad numbers and symbols are marked in blue on the right of the keypad keys. To type a number or symbol, hold down <Fn> and press the desired key.

- 1 To enable the keypad, press <Num Lk>. The  light indicates that the keypad is active.
- 1 To disable the keypad, press <Num Lk> again.

Key Combinations

System Functions

<Ctrl><Shift><Esc>	Opens the Task Manager window
<Fn><F4>	Enables and disables the numeric keypad
<Fn><F5>	Enables and disables the scroll lock

Battery

<Fn><F3>	Displays the Dell™ QuickSet Battery Meter
----------	---

CD or DVD Tray

<Fn><F10>	Ejects the tray out of the drive (if Dell QuickSet is installed).
-----------	---

Display Functions

<Fn><F8>	Switches the video image to the next display option. The options include the integrated display, an external monitor, and both displays simultaneously.
<Fn> and up-arrow key	Increases brightness on the integrated display only (not on an external monitor).
<Fn> and down-arrow key	Decreases brightness on the integrated display only (not on an external monitor).

Radios (Including Wireless Networking and Bluetooth® Wireless Technology)

<Fn><F2>	Enables and disables radios, including wireless networking and Bluetooth wireless technology
----------	--

Power Management

<Fn><Esc>	Activates a power management mode. You can reprogram this keyboard shortcut to activate a different power management mode using the Advanced tab in the Power Options Properties window.
-----------	---

Speaker Functions

<Fn><Page Up>	Increases the volume of the integrated speakers and external speakers, if attached
<Fn><Page Dn>	Decreases the volume of the integrated speakers and external speakers, if attached
<Fn><End>	Enables and disables the integrated speakers and external speakers, if attached

Microsoft® Windows® Logo Key Functions

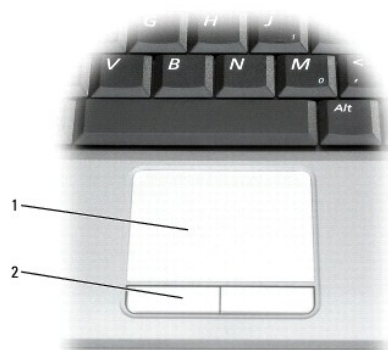
Windows logo key and <m>	Minimizes all open windows
Windows logo key and <Shift><m>	Maximizes all windows
Windows logo key and <e>	Runs Windows Explorer
Windows logo key and <r>	Opens the Run dialog box
Windows logo key and <f>	Opens the Search Results dialog box
Windows logo key and <Ctrl><f>	Opens the Search Results-Computer dialog box (if the computer is connected to a network)
Windows logo key and <Pause>	Opens the System Properties dialog box

To adjust keyboard operation, such as the character repeat rate:

- 1 In *Windows XP*, open the [Control Panel](#), click **Printers and Other Hardware**, and click **Keyboard**.
- 1 In *Windows 2000*, open the Control Panel and double-click the **Keyboard** icon.

Touch Pad

The touch pad detects the pressure and movement of your finger to allow you to move the cursor on the display. Use the touch pad and touch pad buttons as you would use a mouse.



1	touch pad
2	touch pad buttons

- 1 To move the cursor, lightly slide your finger over the touch pad.
- 1 To select an object, lightly tap once on the surface of the touch pad or use your thumb to press the left touch-pad button.
- 1 To select and move (or drag) an object, position the cursor on the object and tap down-up-down on the touch pad. On the second down motion, leave your finger on the touch pad and move the selected object by sliding your finger over the surface.

- 1 To double-click an object, position the cursor on the object and tap twice on the touch pad or use your thumb to press the left touch-pad button twice.




Customizing the Touch Pad

You can use the **Mouse Properties** window to disable the touch pad or adjust their settings.

1. Open the [Control Panel](#), and then click **Mouse**.
2. In the **Mouse Properties** window:
 - 1 Click the **Device Settings** tab, and then click **Disable** to disable the touch pad.
 - 1 Click the **Pointers** tab to adjust touch pad settings.
3. Click **OK** to save the settings and close the window.



Dell™ Latitude™ X1 User's Guide

Notes, Notices, and Cautions

-  **NOTE:** A NOTE indicates important information that helps you make better use of your computer.
 -  **NOTICE:** A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.
 -  **CAUTION:** A CAUTION indicates a potential for property damage, personal injury, or death.
-

Abbreviations and Acronyms

For a complete list of abbreviations and acronyms, see the [Glossary](#).

-  **NOTE:** If you purchased a Dell™ n Series computer, any references in this document to Microsoft® Windows® operating systems are not applicable.
 -  **NOTE:** Some features may not be available for your computer or in certain countries.
-

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June 2005 Rev. A02

Passwords

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- [About Passwords](#)
- [Using a Primary Password](#)
- [Using an Administrator Password](#)
- [Using a Hard Drive Password](#)
- [Assigning an Asset Tag](#)
- [Enabling Trusted Platform Module \(TPM\)](#)


About Passwords

 **NOTE:** Passwords are disabled when you receive your computer.

A primary password, an administrator password, and a hard drive password all prevent unauthorized access to your computer in different ways. The following table identifies types and features of passwords available on your computer.

Type of Password	Features
Primary	<ul style="list-style-type: none">Protects the computer from unauthorized access
Administrator	<ul style="list-style-type: none">Gives system administrators or service technicians access to computers for repair or reconfigurationAllows you to restrict access to system setup in the same way a primary password restricts access to the computerCan be used instead of the primary password
Hard drive	<ul style="list-style-type: none">Helps protect the data on your hard drive or external hard drive (if one is being used) from unauthorized access

 **NOTE:** Only hard drives purchased from Dell for use with the Dell™ Latitude™ D-Family computers support hard drive passwords.

 **NOTICE:** Passwords provide a high level of security for data in your computer or hard drive. However, they are not foolproof. If you require more security, obtain and use additional forms of protection, such as smart cards, data encryption programs, or PC Cards with encryption features.

If you forget any of your passwords, contact your system administrator or [contact Dell](#). For your protection, Dell technical support staff will ask you for proof of your identity to ensure that only an authorized person can use the computer.

Using a Primary Password


The primary password allows you to protect the computer from unauthorized access.

After assigning a primary password, you must enter it each time you turn on your computer. The following message appears each time you turn on the computer:

Please type in the primary or administrator password and press <Enter>.

To continue, enter your password (with no more than eight characters).

If you do not enter a password within 2 minutes, the computer returns to its previous operating state.

 **NOTICE:** If you disable the administrator password, the primary password is also disabled.


If you have assigned an administrator password, you can use it instead of the primary password. The computer does not specifically prompt you for the administrator password.


Using an Administrator Password

The administrator password is designed to give system administrators or service technicians access to computers for repair or reconfiguration. The administrators or technicians can assign identical administrator passwords to groups of computers, allowing you to assign the primary password.

When you set an administrator password, the **Configure Setup** option becomes available in system setup. The **Configure Setup** option allows you to restrict access to system setup in the same way that a primary password restricts access to the computer.

The administrator password can be used instead of the primary password. Whenever you are prompted to enter the primary password, you can enter the administrator password.

 **NOTICE:** If you disable the administrator password, the primary password is also disabled.

 **NOTE:** The administrator password provides access to the computer, but it does not provide access to the hard drive when a hard drive password is assigned.

If you forget the primary password and do not have an administrator password assigned, or if you have both a primary and an administrator password assigned but forget them both, contact your system administrator or [contact Dell](#).

Using a Hard Drive Password

The hard drive password helps protect the data on your hard drive from unauthorized access. You can also assign a password for an external hard drive (if one is being used) that can be the same as or different from the password for the primary hard drive.

After assigning a hard drive password, you must enter it each time you turn on the computer and each time you restore the computer to normal operation from standby mode.

If the hard drive password is enabled, the following message appears each time you turn on the computer:

```
Please type in the hard-disk drive password and press <Enter>.
```

To continue, enter your password (with no more than eight characters). Press <Esc> to return the computer to its previous operating state.


If you do not enter a password within 2 minutes, the computer returns to its previous operating state.

If you enter the wrong password, the following message appears:


```
Invalid password  
[Press Enter to retry]
```

If you do not enter the correct password in three attempts, the computer tries to start from another bootable device if the **Boot First Device** option in system setup is set to allow start-up from another device. If the **Boot First Device** option is not set to allow the computer to start from another device, the computer returns to the operating state it was in when you turned it on.

If the hard drive password, the external hard-drive password, and the primary password are the same, the computer prompts you only for the primary password. If the hard drive password is different from the primary password, the computer prompts you for both. Two different passwords provide greater security.

 **NOTE:** The administrator password provides access to the computer, but it does not provide access to a hard drive that is protected by a hard drive password.

Assigning an Asset Tag

 **NOTE:** Some of these features may not be available for your computer or in certain countries.

The Asset Tag utility allows you to enter an asset tag that you or your company assigns to the computer. After you enter an asset tag, the tag appears in the system setup screens.

You can also use the Asset Tag utility to enter an owner tag that appears in the system log-on screen and with the primary password prompt.

Go to support.dell.com to obtain the asset tag utility.


Use a bootable floppy to assign an asset tag:

3. Save and close any open files and exit any open programs.
4. Connect the Dell™ D/Bay with a floppy drive to the Dell D/Bay USB connector, or connect a USB floppy drive to the USB connector on the back of the computer.
5. Boot the computer, using the bootable floppy.
 - a. Restart the computer.
 - b. Press <F12> immediately after the DELL™ logo appears.

If the operating system logo appears, wait until you see the Microsoft® Windows® desktop, and then shut down the computer and try again.
 - c. Press the arrow keys to select **Diskette Drive** and press <Enter>.
6. Type `asset` and a space followed by the new asset tag, and press <Enter>.

For example, type the following command line and press <Enter>:

```
asset 1234$ABCD&
```

 **NOTE:** An asset tag can have up to 10 characters; any combination of characters excluding spaces is valid.

7. When the computer prompts you to verify the asset tag, type *y*.
The computer displays the new or modified asset tag and the Service Tag.
8. Restart your computer to exit the Asset Tag utility.

Viewing Existing Asset and Service Tags

1. Boot the computer using the bootable floppy disk you created in "[Assigning an Asset Tag.](#)"
2. Type `asset` and press <Enter>.

Deleting an Asset Tag

1. Boot the computer using the bootable floppy disk you created in "[Assigning an Asset Tag.](#)"
2. Type `asset /d` and press <Enter>.
3. When the computer prompts you to delete the asset tag, type *y*.

Assigning an Owner Tag

An owner tag can have up to 48 characters; any combination of letters, numbers, and spaces is valid.


1. Boot the computer using the bootable floppy disk you created in "[Assigning an Asset Tag.](#)"
2. Type `asset /o` and a space followed by the new owner tag, and press <Enter>.

For example, type the following command line and press <Enter>:

```
asset /o ABC Company
```

3. When the computer prompts you to verify the owner tag, type *y*.
The computer displays the new owner tag.

Deleting an Owner Tag

 **NOTE:** For security, you cannot set, change, or delete the owner tag if the primary or administrator passwords are set.

1. Boot the computer using the bootable floppy disk you created in "[Assigning an Asset Tag.](#)"
2. Type `asset /o /d` and press <Enter>.
3. When the computer prompts you to delete the owner tag, type *y*.

Asset Tag Options

To use one of the asset tag options (see the following table):


1. Boot the computer using the bootable floppy disk you created in "[Assigning an Asset Tag.](#)"
2. Type `asset` and a space followed by the option, and then press <Enter>.

Asset Tag Option	Description
------------------	-------------

/d	Deletes the asset tag
/o <i>owner tag</i>	Specifies a new owner tag
/o /d	Deletes the owner tag
/?	Displays the Asset Tag utility help screen

Enabling Trusted Platform Module (TPM)

The Trusted Platform Module (TPM) is a hardware based security feature that can be used to create and manage computer generated encryption keys. When combined with security software, the TPM enhances existing network and computer security by enabling features such as file protection capabilities and protected e-mail. **The TPM feature is enabled through a System Setup option.**

-  **NOTE:** TPM users are responsible for following the backup procedures documented in the "Broadcom Secure Foundation Getting Started Guide" to secure their TPM data and encryption keys. In the event of an emergency if these backups are incomplete, lost, or damaged it will be impossible for Dell to assist in the recovery of encrypted data.

Enabling TPM


1. Download the software and follow the on-screen instructions to install the Broadcom Secure Foundation software.

By default, the files are present in **C:\Dell\TPM**. If the files are not found at this location they can be downloaded from support.dell.com.

2. Turn on the TPM.
 - a. **Restart the computer and press <F2> during the Power On Self Test to enter the system setup program.**
 - b. Open the **Security** menu and select the **TPM Security** menu option.
 - c. Set the TPM security state to **On**.
 - d. Press <Esc> to exit the setup program. Click **Save/Exit** if prompted.

-  **NOTE:** If the TPM on this system is being used for the first time, follow step 3. If the TPM on this system has been used before, skip step 3 and go to step 4.

3. Perform software vendor activation.
 - a. Boot the Microsoft Windows operating system.
 - b. Launch the Broadcom Secure Foundation Platform initialization wizard.
 - c. Follow the on-screen instructions to perform "Vendor Activation". This operation is executed only once on any system. The system restarts automatically.
4. Physically activate the TPM.
 - a. Restart the computer and press <F2> during the Power On Self Test to enter system setup program again.
 - b. Open the **Security** menu and select the **TPM Activation** menu option.
 - c. Set the TPM activation state to **Activate**. Changes to this field take effect immediately.
5. Initialize the TPM owner and user passwords.
 - a. Launch the Broadcom Secure Foundation Platform initialization wizard after the operating system reboots.
 - b. Follow the wizard instructions for creating the TPM owner, user passwords, and credentials.


-  **NOTE:** Encryption is supported by the TPM only if it is supported by the operating system. For more information see "Broadcom Secure Foundation Getting Started Guide" and the help files that came with the software.

Power Management

Dell™ Latitude™ X1 User's Guide


- [Power Management Tips](#)
 - [Power Management Wizard](#)
 - [Power Management Modes](#)
 - [Power Options Properties](#)
-


Power Management Tips

 **NOTE:** See "[Using a Battery](#)" for more information on conserving battery power.


- 1 Connect the computer to an electrical outlet when possible because battery life is largely determined by the number of times the battery is charged.
 - 1 Place the computer in [standby mode](#) or [hibernate mode](#) when you leave the computer unattended for long periods of time.
 - 1 You can use the [Power Management Wizard](#) to configure the computer to enter or exit power management modes by pressing the power button, closing the display, or pressing <Fn><Esc>.
-

Power Management Wizard

 **NOTE:** The Power Management Wizard is not available if you have restricted access rights.

Click or double-click the  icon to open the Power Management Wizard.

The first two screens of the wizard—**Welcome** and **What is Power Management?**—describe and define various power management options.

 **NOTE:** On the What is Power Management? screen, you can select Do not show this page again. When you select this option, the Welcome screen also does not appear again.


Use the screens that follow **Welcome** and **What is Power Management?** to set various power management options, including sleep modes, power schemes, and low battery-charge alarms.

Setting Sleep Modes

The screen defines standby and hibernate modes. From the screen you can:

- 1 Set standby-mode password options.
- 1 Enable or disable hibernate mode.
- 1 Select how the computer will respond when you close the display:
 - o Choose no action.
 - o Enter standby mode.
 - o Enter hibernate mode.
- 1 Select how the computer will respond when you press the power button:
 - o Choose no action.
 - o Enter standby mode.
 - o Enter hibernate mode.
 - o Shut down the operating system and turn off the computer.
 - o Prompt a user for an action (**Ask me what to do**).
- 1 Select how the computer will respond when you press <Fn><Esc>:
 - o Choose no action.
 - o Enter standby mode.
 - o Enter hibernate mode.
 - o Shut down Microsoft Windows and turn off the computer.
 - o Prompt a user for an action (**Ask me what to do**).


Selecting a Power Scheme

 **NOTE:** When your computer is running on battery power, the Network Disabled power scheme disables your internal network and wireless activity. When your computer is connected to an electrical outlet, the Network Disabled power scheme disables only your wireless activity. You must set the power scheme through QuickSet (not Microsoft® Windows®) for the Network Disabled power scheme to work.

The screen allows you to select, create, and edit power scheme settings. In addition, you can delete power schemes that you create, but you cannot delete Dell™ QuickSet predefined power schemes (Maximum Battery, Maximum Performance, Presentation, and Wireless Disabled).

You can change a QuickSet predefined power scheme through the Windows **Power Options Properties** window. To restore the default QuickSet values for a power scheme, you can do one of the following:


- 1 Set the power scheme through the QuickSet Power Management Wizard.
- 1 Exit QuickSet, use the **Start** menu to open QuickSet, and select the power scheme again.
- 1 Exit QuickSet and any open programs, restart your computer, open QuickSet, and select the power scheme through the QuickSet menu options.

 **NOTE:** QuickSet automatically adds the word (QuickSet) after the names of power schemes created using QuickSet.

All QuickSet power schemes are displayed in a drop-down menu near the center of the screen. The power settings for each scheme in the menu are listed below the menu. The power settings are listed separately for when the computer is running on battery or connected to an electrical outlet.

The Power Management Wizard also allows you to associate the display brightness level with a power scheme. You must enable brightness-level power schemes through QuickSet in order to set the brightness level.

The display brightness, internal network-card activity, and wireless activity features are not available through the Control Panel power schemes. In order to make use of these value-added features, you must set them through QuickSet power schemes.

 **NOTE:** Brightness shortcut keys only affect the display on your portable computer, not monitors that you attach to your portable computer. If your computer is in CRT only mode and you try to change the brightness level, the Brightness Meter appears, but the brightness level on the monitor does not change.

Setting Battery Alarms and Actions

The screen allows you to enable the low-battery and critical-battery alarms and to change settings for the alarms. For example, you can set the low-battery alarm to 20 percent to remind you to save work and switch to AC power, and you can set the critical-battery alarm to 10 percent to enter hibernate mode. From the screen, you can:

- 1 Select whether the alarm will notify you by sound or text.
- 1 Adjust the power level at which you want the alarm to notify you.
- 1 Select how the computer will respond when the alarm notifies you:
 - o Choose no action.
 - o Enter standby mode.
 - o Enter hibernate mode.
 - o Shut down Windows and turn off the computer.

Completing the Power Management Wizard


The screen summarizes the QuickSet power scheme, sleep mode, and battery alarm settings for your computer. Review the settings you have selected and click **Finish**.

For more information about QuickSet, right-click the  icon in the taskbar and click **Help**.

Power Management Modes

Standby Mode

Standby mode conserves power by turning off the display and the hard drive after a predetermined period of inactivity (a time-out). When the computer exits standby mode, it returns to the same operating state it was in before entering standby mode.

 **NOTICE:** If your computer loses AC and battery power while in standby mode, it may lose data.

To enter standby mode:


- 1 In the Microsoft® Windows® XP operating system, click the **Start** button, click **Turn off computer**, and then click **Stand by**.
- or
- 1 Depending on how you set the power management options on the [Advanced tab](#) in the **Power Options Properties** window, use one of the following methods:

- o Press the power button.
- o Close the display.
- o Press <Fn><Esc>.

To exit standby mode, press the power button or open the display depending on how you set the options on the [Advanced tab](#). You cannot make the computer exit standby mode by pressing a key or touching the touch pad.

Hibernate Mode

Hibernate mode conserves power by copying system data to a reserved area on the hard drive and then completely turning off the computer. When the computer exits hibernate mode, it returns to the same operating state it was in before entering hibernate mode.

 **NOTICE:** You cannot remove devices while your computer is in hibernate mode.

Your computer enters hibernate mode if the battery charge level becomes critically low.

To manually enter hibernate mode:

- 1 In *Windows XP*, click the **Start** button, click **Turn off computer**, press and hold <Shift>, and then click **Hibernate**.
- or
- 1 Depending on how you set the power management options on the [Advanced tab](#) in the **Power Options Properties** window, use one of the following methods to enter hibernate mode:
 - o Press the power button.
 - o Close the display.
 - o Press <Fn><Esc>.

To exit hibernate mode, press the power button. The computer may take a short time to exit hibernate mode. You cannot make the computer exit hibernate mode by pressing a key or touching the touch pad. For more information on hibernate mode, see the documentation that came with your operating system.

Power Options Properties

The **Power Options Properties** window helps you to manage power consumption and monitor battery charge status. To access the Windows **Power Options Properties** window, click the **Start** button→ **Control Panel**→ **Performance and Maintenance**→ **Power Options**.


Power Schemes Tab

The **Power schemes** drop-down menu displays the selected preset power scheme. Keep the default **Portable/Laptop** power scheme to maximize battery power.

Windows XP controls the performance level of the processor depending on the power scheme you select. You do not need to make any further adjustments to set the performance level.

Each preset power scheme has different time-out settings for entering standby mode, turning off the display, and turning off the hard drive. For more information on power management options, see the Help and Support Center.

Alarms Tab

 **NOTE:** To enable audible alarms, click each Alarm Action button and select Sound alarm.

The **Low battery alarm** and **Critical battery alarm** settings alert you with a message when the battery charge falls below a certain percentage. When you receive your computer, the **Low battery alarm** and **Critical battery alarm** check boxes are selected. It is recommended that you continue to use these settings. See "[Using a Battery](#)" for more information on low-battery warnings.

Power Meter Tab

The **Power Meter** tab displays the current power source and amount of battery charge remaining.

Advanced Tab

The **Advanced** tab allows you to:

- 1 Set power icon and standby mode password options.

1 Program the following functions (depending on your operating system):

- o Prompt a user for an action (**Ask me what to do**).
- o Enter standby mode.
- o Enter hibernate mode.
- o Shut down Windows and turn off the computer.
- o Choose no action (**None** or **Do nothing**).

To program these functions, click an option from the corresponding drop-down menu and then click **OK**.


Hibernate Tab

The **Hibernate** tab lets you enable hibernate mode by clicking the **Enable hibernate support** check box.


Dell™ QuickSet Features

Dell™ Latitude™ X1 User's Guide

- [Clicking the QuickSet Icon](#)
- [Double-Clicking the QuickSet Icon](#)
- [Right-Clicking the QuickSet Icon](#)


Dell QuickSet runs from the  icon located in the taskbar and functions differently when you click, double-click, or right-click the icon.

Clicking the QuickSet Icon


Click the  icon to perform the following tasks:

- 1 Adjust power management settings using the [Power Management Wizard](#).
 - 1 Adjust the size of icons and toolbars.
 - 1 Select a power scheme that you set in the Power Management Wizard.
 - 1 Turn presentation mode on or off.
-

Double-Clicking the QuickSet Icon

Double-click the  icon to adjust power management settings using the [Power Management Wizard](#).

Right-Clicking the QuickSet Icon

Right-click the  icon to perform the following tasks:

- 1 Enable or disable the [Brightness Meter](#) on the screen.
- 1 Turn [wireless activity](#) on or off.
- 1 View *Dell QuickSet Help*.
- 1 View the version and copyright date of the QuickSet program installed on your computer.

For more information about QuickSet, right-click the  icon in the taskbar and click **Help**.

Restoring Your Operating System

Dell™ Latitude™ X1 User's Guide

• [Using Microsoft® Windows® XP System Restore](#)

• [Reinstalling Microsoft Windows XP](#)

Using Microsoft® Windows® XP System Restore

The Microsoft Windows XP operating system provides System Restore to allow you to return your computer to an earlier operating state (without affecting data files) if changes to the hardware, software, or other system settings have left the computer in an undesirable operating state. See the Windows Help and Support Center for information on using System Restore.

➔ **NOTICE:** Make regular backups of your data files. System Restore does not monitor your data files or recover them.

📌 **NOTE:** The procedures in this document were written for the Windows default view, so they may not work if you set your Dell™ computer to the Windows Classic view.

Creating a Restore Point

1. Click the **Start** button and click **Help and Support**.
2. Click **System Restore**.
3. Follow the instructions on the screen.

Restoring the Computer to an Earlier Operating State

➔ **NOTICE:** Before you restore the computer to an earlier operating state, save and close any open files and exit any open programs. Do not alter, open, or delete any files or programs until the system restoration is complete.

1. Click the **Start** button, point to **All Programs→ Accessories→ System Tools**, and then click **System Restore**.
2. Ensure that **Restore my computer to an earlier time** is selected and click **Next**.
3. Click a calendar date to which you want to restore your computer.

The **Select a Restore Point** screen provides a calendar that allows you to see and select restore points. All calendar dates with available restore points appear in boldface type.

4. Select a restore point and click **Next**.

If a calendar date has only one restore point, then that restore point is automatically selected. If two or more restore points are available, click the restore point that you prefer.

5. Click **Next**.

The **Restoration Complete** screen appears after System Restore finishes collecting data and then the computer restarts.

6. After the computer restarts, click **OK**.

To change the restore point, you can either repeat the steps using a different restore point, or you can undo the restoration.

Undoing the Last System Restore

➔ **NOTICE:** Before you undo the last system restore, save and close all open files and exit any open programs. Do not alter, open, or delete any files or programs until the system restoration is complete.

1. Click the **Start** button, point to **All Programs→ Accessories→ System Tools**, and then click **System Restore**.
2. Click **Undo my last restoration** and click **Next**.

Enabling System Restore

If you reinstall Windows XP with less than 200 MB of free hard-disk space available, System Restore is automatically disabled. To see if System Restore is enabled:


1. Click the **Start** button and click **Control Panel**.
2. Click **Performance and Maintenance**.
3. Click **System**.
4. Click the **System Restore** tab.
5. Ensure that **Turn off System Restore** is unchecked.

Reinstalling Microsoft Windows XP

 **NOTICE:** You must use Windows XP Service Pack 1 (SP1) or later when you reinstall Windows XP.


Before You Begin

If you are considering reinstalling the Windows XP operating system to correct a problem with a newly installed driver, first try using Windows XP [Device Driver Rollback](#). If Device Driver Rollback does not resolve the problem, then use [System Restore](#) to return your operating system to the operating state it was in before you installed the new device driver.

 **NOTICE:** Before performing the installation, back up all data files on your primary hard drive. For conventional hard drive configurations, the primary hard drive is the first drive detected by the computer.

To reinstall Windows XP, you need the following items:


1. Dell™ *Operating System* CD
1. Dell *Drivers and Utilities* CD


 **NOTE:** The Drivers and Utilities CD contains drivers that were installed during assembly of the computer. Use the Drivers and Utilities CD to load any required drivers.

Reinstalling Windows XP

To reinstall Windows XP, perform all the steps in the following sections in the order in which they are listed.

The reinstallation process can take 1 to 2 hours to complete. After you reinstall the operating system, you must also reinstall the device drivers, virus protection program, and other software.

 **NOTICE:** The Operating System CD provides options for reinstalling Windows XP. The options can overwrite files and possibly affect programs installed on your hard drive. Therefore, do not reinstall Windows XP unless a Dell technical support representative instructs you to do so.

 **NOTICE:** To prevent conflicts with Windows XP, disable any virus protection software installed on your computer before you reinstall Windows XP. See the documentation that came with the software for instructions.

Booting From the Operating System CD

1. Save and close any open files and exit any open programs.
2. Insert the *Operating System* CD. Click **Exit** if the **Install Windows XP** message appears.
3. Restart the computer.
4. Press <F2> immediately after the DELL™ logo appears.


If the operating system logo appears, wait until you see the Windows desktop, and then shut down the computer and try again.


5. Press the arrow keys to select **CD-ROM**, and press <Enter>.
6. When the **Press any key to boot from CD** message appears, press any key.

Windows XP Setup

1. When the **Windows XP Setup** screen appears, press <Enter>.
2. Read the information on the **Microsoft Windows Licensing Agreement** screen, and press <F8> to accept the license agreement.
3. If your computer already has Windows XP installed and you want to recover your current Windows XP data, type \pm to select the repair option, and remove the CD.
4. If you want to install a new copy of Windows XP, press <Esc> to select that option.
5. Press <Enter> to select the highlighted partition (recommended), and follow the instructions on the screen.


The **Windows XP Setup** screen appears, and the operating system begins to copy files and install the devices. The computer automatically restarts multiple times.

 **NOTE:** The time required to complete the setup depends on the size of the hard drive and the speed of your computer.


 **NOTICE:** Do not press any key when the following message appears: Press any key to boot from the CD.

6. When the **Regional and Language Options** screen appears, select the settings for your location and click **Next**.
7. Enter your name and organization (optional) in the **Personalize Your Software** screen, and click **Next**.
8. At the **Computer Name and Administrator Password** window, enter a name for your computer (or accept the one provided) and a password, and click **Next**.
9. If the **Modem Dialing Information** screen appears, enter the requested information and click **Next**.
10. Enter the date, time, and time zone in the **Date and Time Settings** window, and click **Next**.
11. If the **Networking Settings** screen appears, click **Typical** and click **Next**.
12. If you are reinstalling Windows XP Professional and you are prompted to provide further information regarding your network configuration, enter your selections. If you are unsure of your settings, accept the default selections.

Windows XP installs the operating system components and configures the computer. The computer automatically restarts.

 **NOTICE:** Do not press any key when the following message appears: Press any key to boot from the CD.

13. When the **Welcome to Microsoft** screen appears, click **Next**.
14. When the **How will this computer connect to the Internet?** message appears, click **Skip**.
15. When the **Ready to register with Microsoft?** screen appears, select **No, not at this time** and click **Next**.
16. When the **Who will use this computer?** screen appears, you can enter up to five users.
17. Click **Next**.
18. Click **Finish** to complete the setup, and remove the CD.
19. [Reinstall the appropriate drivers](#) with the *Drivers and Utilities* CD.
20. Reinstall your virus protection software.
21. Reinstall your programs.


 **NOTE:** To reinstall and activate your Microsoft Office or Microsoft Works Suite programs, you need the Product Key number located on the back of the Microsoft Office or Microsoft Works Suite CD sleeve.

Using the System Setup Program

Dell™ Latitude™ X1 User's Guide

- [Overview](#)
 - [Viewing the System Setup Screens](#)
 - [System Setup Screens](#)
 - [Commonly Used Options](#)
-

Overview

 **NOTE:** Your operating system may automatically configure most of the options available in system setup, thus overriding options that you set through system setup. (An exception is the External Hot Key option, which you can disable or enable only through system setup.) For more information on configuring features for your operating system, see the Microsoft® Windows® XP Help and Support Center.


You can use system setup as follows:

- 1 To set or change user-selectable features—for example, your computer password
- 1 To verify information about the computer's current configuration, such as the amount of system memory

After you set up the computer, run system setup to familiarize yourself with your system configuration information and optional settings. You may want to write down the information for future reference.

The system setup screens display the current setup information and settings for your computer, such as:

- 1 System configuration
- 1 Boot order
- 1 Boot (start-up) configuration settings
- 1 Basic device-configuration settings
- 1 System security and hard-drive password settings

 **NOTICE:** Unless you are an expert computer user or are directed to do so by Dell technical support, do not change the system setup settings. Certain changes might make your computer work incorrectly.

Viewing the System Setup Screens

1. Turn on (or restart) your computer.
 2. When the DELL™ logo appears, press <F2> immediately. If you wait too long and the Windows logo appears, continue to wait until you see the Windows desktop. Then shut down your computer and try again.
-

System Setup Screens

The **System Setup** screen consists of three panes. The left pane contains a menu of control categories. To show or hide subcategories, select a category (such as **System**, **Onboard Devices**, or **Video**) and press the <Enter> key. The right pane displays information about the category or subcategory.


The bottom pane describes how to control system setup with key functions. Use the keys to select a category, modify settings, or exit system setup.

Commonly Used Options

Certain options require that you reboot the computer for new settings to take effect.

Changing the Boot Sequence

The *boot sequence*, or *boot order*, tells the computer where to look to find the software needed to start the operating system. You can control the boot sequence and enable/disable devices using the **Boot Sequence** page of system setup.

 **NOTE:** To change the boot sequence on a one-time-only basis, see "[Performing a One-Time Boot](#)."

The **Boot Sequence** page displays a general list of the bootable devices that may be installed in your computer, including but not limited to the following:

- 1 **Diskette Drive**
- 1 **USB Storage Device**

1 Internal HDD

During the boot routine, the computer starts at the top of the list and scans each enabled device for the operating system start-up files. When the computer finds the files, it stops searching and starts the operating system.

To control the boot devices, select (highlight) a device by pressing the down-arrow or up-arrow key, and then enable or disable the device or change its order in the list.

- 1 To enable or disable a device, highlight the item and press the space bar. Enabled items appear with a number next to them; disabled items do not have a number next to them.
- 1 To reorder a device in the list, highlight the device and then press <U> or <D> to move the highlighted device up or down.

Boot sequence changes take effect as soon as you save the changes and exit system setup.

Performing a One-Time Boot

You can set a one-time-only boot sequence without entering system setup. (You can also use this procedure to boot the Dell Diagnostics on the diagnostics utility partition on your hard drive.)

1. Shut down the computer through the **Start** menu.
2. Turn on the computer. When the DELL logo appears, press <F12> immediately. If you wait too long and the Windows logo appears, continue to wait until you see the Windows desktop. Then shut down your computer and try again.
3. When the boot device list appears, highlight the device from which you want to boot and press <Enter>.

The computer boots to the selected device.


The next time you reboot the computer, the previous boot order is restored.

Solving Problems

Dell™ Latitude™ X1 User's Guide

- [Drive Problems](#)
- [E-Mail, Modem, and Internet Problems](#)
- [Error Messages](#)
- [IEEE 1394 Device Problems](#)
- [Keyboard Problems](#)
- [Lockups and Software Problems](#)
- [Memory Problems](#)
- [Network Problems](#)
- [CompactFlash Card Problems](#)
- [Power Problems](#)
- [Printer Problems](#)
- [Scanner Problems](#)
- [Sound and Speaker Problems](#)
- [Touch Pad or Mouse Problems](#)
- [Video and Display Problems](#)


Drive Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Fill out the [Diagnostics Checklist](#) as you complete these checks.

<p>Ensure that Microsoft® Windows® recognizes the drive — Click the Start button and click My Computer. If the floppy, CD, or DVD drive, is not listed, perform a full scan with your antivirus software to check for and remove viruses. Viruses can sometimes prevent Windows from recognizing the drive.</p>
<p>Test the drive —</p> <ol style="list-style-type: none">1 Insert another floppy disk, CD, or DVD to eliminate the possibility that the original one is defective.1 Insert a bootable floppy disk and restart the computer.
<p>Clean the drive or disk — See "Cleaning Your Computer."</p>
<p>Ensure that the CD is snapped onto the spindle</p>
<p>Check the cable connections</p>
<p>Check for hardware incompatibilities</p>
<p>Run the Dell Diagnostics — See "Using the Dell Diagnostics."</p>

CD and DVD drive problems

 **NOTE:** Because of different regions worldwide and different disc formats, not all DVD titles work in all DVD drives.

Problems writing to a CD/DVD-RW drive

<p>Close other programs — The CD/DVD-RW drive must receive a steady stream of data when writing. If the stream is interrupted, an error occurs. Try closing all programs before you write to the CD/DVD-RW.</p>
<p>Turn off Standby mode in Windows before writing to a CD/DVD-RW disc — See "Power Management" or search for the keyword <i>standby</i> in the Windows Help and Support Center for information on power management modes.</p>
<p>Change the write speed to a slower rate — See the help files for your CD or DVD creation software.</p>

Hard drive problems

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Allow the computer to cool before turning it on — A hot hard drive may prevent the operating system from starting. Try allowing the computer to return to room temperature before turning it on.

Run Check Disk —

1. Click the **Start** button and click **My Computer**.
2. Right-click **Local Disk C:**.
3. Click **Properties**.
4. Click the **Tools** tab.
5. Under **Error-checking**, click **Check Now**.
6. Click **Scan for and attempt recovery of bad sectors**.
7. Click **Start**.

E-Mail, Modem, and Internet Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

 **NOTE:** Connect the modem to an analog telephone jack only. The modem does not operate while it is connected to a digital telephone network.

Check the Microsoft Outlook® Express Security Settings — If you cannot open your e-mail attachments:

1. In Outlook Express, click **Tools**, click **Options**, and then click **Security**.
2. Click **Do not allow attachments** to remove the checkmark.

Check the telephone line connection —

Check the telephone jack —

Connect the modem directly to the telephone wall jack —

Use a different telephone line —

1. Verify that the telephone line is connected to the jack on the modem. (The jack has either a green label or a connector-shaped icon next to it.)
1. Ensure that you hear a click when you insert the telephone line connector into the modem.
1. Disconnect the telephone line from the modem and connect it to a telephone. Listen for a dial tone.
1. If you have other telephone devices sharing the line, such as an answering machine, fax machine, surge protector, or line splitter, then **bypass** them and connect the modem directly to the telephone wall jack. If you are using a line that is 3 m (10 ft) or more in length, try a shorter one.

Run the Modem Helper diagnostics — Click the **Start** button, point to **All Programs**, and then click **Modem Helper**. Follow the instructions on the screen to identify and resolve modem problems. (Modem Helper is not available on all computers.)

Verify that the modem is communicating with Windows —


1. Click the **Start** button and click **Control Panel**.
2. Click **Printers and Other Hardware**.
3. Click **Phone and Modem Options**.
4. Click the **Modems** tab.
5. Click the COM port for your modem.
6. Click **Properties**, click the **Diagnostics** tab, and then click **Query Modem** to verify that the modem is communicating with Windows.

Ensure that you are connected to the Internet — Ensure that you have subscribed to an Internet provider. With the Outlook Express e-mail program open, click **File**. If **Work Offline** has a checkmark next to it, click the checkmark to remove it and connect to the Internet. For help, contact your Internet service provider.

Scan the computer for spyware — If you are experiencing slow computer performance, you frequently receive pop-up advertisements, or you are having problems connecting to the Internet, your computer might be infected with spyware. Use an anti-virus program that includes anti-spyware protection (your program may require an upgrade) to scan the computer and remove spyware. For more information, go to support.dell.com and search for the keyword *spyware*.

Error Messages

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

If the message is not listed, see the documentation for the operating system or the program that was running when the message appeared.

<p>Auxiliary device failure — The touch pad or external mouse may be faulty. For an external mouse, check the cable connection. Enable the Pointing Device option in the system setup program. If the problem persists, contact Dell.</p>
<p>Bad command or file name — Ensure that you have spelled the command correctly, put spaces in the proper place, and used the correct pathname.</p>
<p>Cache disabled due to failure — The primary cache internal to the microprocessor has failed. Contact Dell.</p>
<p>CD drive controller failure — The CD drive does not respond to commands from the computer. See "Solving Problems."</p>
<p>Data error — The hard drive cannot read the data. See "Solving Problems."</p>
<p>Decreasing available memory — One or more memory modules may be faulty or improperly seated. Contact Dell.</p>
<p>Disk C: failed initialization — The hard drive failed initialization. Run the hard drive tests as described in "Using the Dell Diagnostics."</p>
<p>Drive not ready — The operation requires a hard drive in the bay before it can continue. Install a hard drive in the hard drive bay.</p>
<p>Error reading card — The computer cannot identify the CompactFlash card or secure digital card. Reinsert the card or try another PC Card.</p>
<p>Extended memory size has changed — The amount of memory recorded in NVRAM does not match the memory installed in the computer. Restart the computer. If the error appears again, contact Dell.</p>
<p>Gate A20 failure — A memory module may be loose. Contact Dell.</p>
<p>General failure — The operating system is unable to carry out the command. The message is usually followed by specific information—for example, Printer out of paper. Take the appropriate action.</p>
<p>Hard-disk drive configuration error — The computer cannot identify the drive type. Run the Hard-Disk Drive tests as described in "Using the Dell Diagnostics."</p>
<p>Hard-disk drive controller failure 0 — The hard drive does not respond to commands from the computer. Run the Hard-Disk Drive tests as described in "Using the Dell Diagnostics."</p>
<p>Hard-disk drive failure — The hard drive does not respond to commands from the computer. Run the Hard-Disk Drive tests as described in "Using the Dell Diagnostics."</p>
<p>Hard-disk drive read failure — The hard drive may be defective. Run the Hard-Disk Drive tests as described in "Using the Dell Diagnostics."</p>
<p>Insert bootable media — The operating system is trying to boot to a nonbootable CD. Insert a CD.</p>
<p>Invalid configuration information-please run System Setup Program — The system configuration information does not match the hardware configuration. The message is most likely to occur after a memory module is installed. Correct the appropriate options in the system setup program.</p>
<p>Keyboard clock line failure — For external keyboards, check the cable connection. Run the Keyboard Controller test as described in "Using the Dell Diagnostics."</p>
<p>Keyboard controller failure — For external keyboards, check the cable connection. Restart the computer, and avoid touching the keyboard or the mouse during the boot routine. Run the Keyboard Controller test as described in "Using the Dell Diagnostics."</p>

Keyboard data line failure — For external keyboards, check the cable connection. Run the Keyboard Controller test as described in "[Using the Dell Diagnostics](#)."

Keyboard stuck key failure — For external keyboards or keypads, check the cable connection. Restart the computer, and avoid touching the keyboard or keys during the boot routine. Run the Stuck Key test as described in "[Using the Dell Diagnostics](#)."

Memory address line failure at address, read value expecting value — A memory module may be faulty or improperly seated. [Contact Dell](#).

Memory allocation error — The software you are attempting to run is conflicting with the operating system, another program, or a utility. Shut down the computer, wait 30 seconds, and then restart it. Try to run the program again. If the error message still appears, see the software documentation.

Memory data line failure at address, read value expecting value — A memory module may be faulty or improperly seated. [Contact Dell](#).

Memory double word logic failure at address, read value expecting value — A memory module may be faulty or improperly seated. [Contact Dell](#).

Memory odd/even logic failure at address, read value expecting value — A memory module may be faulty or improperly seated. [Contact Dell](#).

Memory write/read failure at address, read value expecting value — A memory module may be faulty or improperly seated. [Contact Dell](#).

No boot device available — The computer cannot find the hard drive. If the hard drive is your boot device, ensure that the drive is installed, properly seated, and partitioned as a boot device.

No boot sector on hard drive — The operating system may be corrupted. [Contact Dell](#).

No timer tick interrupt — A chip on the system board may be malfunctioning. Run the System Set tests as described in "[Using the Dell Diagnostics](#)."

Operating system not found — The hard drive apparently failed. [Contact Dell](#).

Optional ROM bad checksum — The optional ROM apparently failed. [Contact Dell](#).

A required .DLL file was not found — The program that you are trying to open is missing an essential file. Remove and then reinstall the program.

1. Click the **Start** button and click **Control Panel**.
2. Click **Add or Remove Programs**.
3. Select the program you want to remove.
4. Click **Remove** or **Change/Remove** and follow the prompts on the screen.
5. See the program documentation for installation instructions.

Sector not found — The operating system cannot locate a sector on the hard drive. You may have a defective sector or corrupted FAT on the hard drive. Run the Windows error-checking utility to check the file structure on the hard drive. See the Help and Support Center for instructions. If a large number of sectors are defective, back up the data (if possible), and then reformat the hard drive.

Seek error — The operating system cannot find a specific track on the hard drive.

Shutdown failure — A chip on the system board may be malfunctioning. Run the System Set tests as described in "[Using the Dell Diagnostics](#)."

Time-of-day clock lost power — System configuration settings are corrupted. Connect your computer to an electrical outlet to charge the battery. If the problem persists, try to restore the data by entering the system setup program. Then immediately exit the program. See "[Using the System Setup Program](#)." If the message reappears, [Contact Dell](#).

Time-of-day clock stopped — The reserve battery that supports the system configuration settings may require recharging. Connect your computer to an electrical outlet to charge the battery. If the problem persists, [Contact Dell](#).

Time-of-day not set—please run the System Setup program — The time or date stored in the system setup program does not match the system clock. Correct the settings for the **Date** and **Time** options. See "[Using the System Setup Program](#)."

Timer chip counter 2 failed — A chip on the system board may be malfunctioning. Run the System Set tests as described in "[Using the Dell Diagnostics](#)."

Unexpected interrupt in protected mode — The keyboard controller may be malfunctioning, or a memory module may be loose. Run the System Memory tests and the Keyboard Controller test as described in "[Using the Dell Diagnostics](#)."

x:\ is not accessible. The device is not ready — Insert a disk into the drive and try again.

Warning: Battery is critically low — The battery is running out of charge. Replace the battery, or connect the computer to an electrical outlet. Otherwise, activate hibernate mode or shut down the computer.

IEEE 1394 Device Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Ensure that the IEEE 1394 device is properly inserted into the connector

Ensure that the IEEE 1394 device is recognized by Windows —

1. Click the **Start** button and click **Control Panel**.
2. Click **Printers and Other Hardware**.

If your IEEE 1394 device is listed, Windows recognizes the device.


If you have problems with a Dell-provided IEEE 1394 device —

Contact Dell.


If you have problems with an IEEE 1394 device not provided by Dell —

Contact the IEEE 1394 device manufacturer.

Keyboard Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Fill out the [Diagnostics Checklist](#) as you perform the various checks.

 **NOTE:** Use the integrated keyboard when working in MS-DOS® mode or when running the Dell Diagnostics or the system setup program. When you attach an external keyboard, the integrated keyboard remains fully functional.

External Keyboard problems

Check the keyboard cable — Shut down the computer. Disconnect the keyboard cable and check it for damage, and firmly reconnect the cable.

If you are using a keyboard extension cable, disconnect it and connect the keyboard directly to the computer.

Check the external keyboard —

1. Shut down the computer, wait 1 minute, and turn it on again.
2. Verify that the numbers, capitals, and scroll lock lights on the keyboard blink during the boot routine.
3. From the Windows desktop, click the **Start** button, point to **Programs**, point to **Accessories**, and click **Notepad**.
4. Type some characters on the external keyboard and verify that they appear on the display.

If you cannot verify these steps, you may have a defective external keyboard.

To verify that the problem is with the external keyboard, check the integrated keyboard —

1. Shut down the computer.
2. Disconnect the external keyboard.
3. Turn on the computer.
4. From the Windows desktop, click the **Start** button, point to **Programs**, point to **Accessories**, and click **Notepad**.
5. Type some characters on the external keyboard and verify that they appear on the display.

If the characters appear now but did not with the external keyboard, you may have a defective external keyboard. [Contact Dell](#).

Run the keyboard diagnostics tests — Run the PC-AT Compatible Keyboards tests in the [Using the Dell Diagnostics](#). If the tests indicate a defective external keyboard, [contact Dell](#).

Unexpected characters

Disable the numeric keypad — Press <Num Lk> to disable the numeric keypad if numbers are displayed instead of letters. Verify that the numbers lock light is not lit.


Lockups and Software Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

The computer does not start up

Ensure that the AC adapter is firmly connected to the computer and to the electrical outlet

The computer stops responding

 **NOTICE:** You might lose data if you are unable to perform an operating system shutdown.


Turn the computer off — If you are unable to get a response by pressing a key on your keyboard or moving your mouse, press and hold the power button for at least 8 to 10 seconds until the computer turns off. Then restart your computer.

A program stops responding

End the program —

1. Press <Ctrl><Shift><Esc> simultaneously.
2. Click **Applications**.
3. Click the program that is no longer responding.
4. Click **End Task**.

A program crashes repeatedly

 **NOTE:** Software usually includes installation instructions in its documentation or on a floppy disk or CD.

Check the software documentation — If necessary, uninstall and then reinstall the program.

A program is designed for an earlier Windows operating system

If you are using Windows XP, run the Program Compatibility Wizard — The Program Compatibility Wizard configures a program so it runs in an environment similar to non-Windows XP operating system environments.

1. Click the **Start** button, point to **All Programs**→ **Accessories**, and then click **Program Compatibility Wizard**.

2. In the welcome screen, click **Next**.
3. Follow the instructions on the screen.

A solid blue screen appears

Turn the computer off — If you are unable to get a response by pressing a key on your keyboard or moving your mouse, press and hold the power button for at least 8 to 10 seconds until the computer turns off. Then restart your computer.

Other software problems

Check the software documentation or contact the software manufacturer for troubleshooting information —

1. Ensure that the program is compatible with the operating system installed on your computer.
1. Ensure that your computer meets the minimum hardware requirements needed to run the software. See the software documentation for information.
1. Ensure that the program is installed and configured properly.
1. Verify that the device drivers do not conflict with the program.
1. If necessary, uninstall and then reinstall the program.

Back up your files immediately

Use a virus-scanning program to check the hard drive, floppy disks, or CDs

Save and close any open files or programs and shut down your computer through the Start menu

Scan the computer for spyware — If you are experiencing slow computer performance, you frequently receive pop-up advertisements, or you are having problems connecting to the Internet, your computer might be infected with spyware. Use an anti-virus program that includes anti-spyware protection (your program may require an upgrade) to scan the computer and remove spyware. For more information, go to support.dell.com and search for the keyword *spyware*.

Run the [Dell Diagnostics](#) — If all tests run successfully, the error condition is related to a software problem.

Memory Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

If you receive an insufficient memory message —

1. Save and close any open files and exit any open programs you are not using to see if that resolves the problem.
1. See the software documentation for minimum memory requirements. Run the [Using the Dell Diagnostics](#).

If you experience other memory problems —

1. Run the [Using the Dell Diagnostics](#).

Network Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Check the network cable connector — Ensure that the network cable is firmly inserted into both the network connector on the back of the


computer and the network jack.

Check the network lights on the network connector — No light indicates that no network communication exists. Replace the network cable.

Restart the computer and log on to the network again

Check your network settings — Contact your network administrator or the person who set up your network to verify that your network settings are correct and that the network is functioning.

CompactFlash Card Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.


Check the CompactFlash Card — Ensure that the card is properly inserted into the connector.

Ensure that the card is recognized by Windows — Double-click the **Safely Remove Hardware** icon in the Windows taskbar. Ensure that the card is listed.

If you have problems with a Dell-provided CompactFlash Card — [Contact Dell](#).

If you have problems with a PC Card not provided by Dell — Contact the PC Card manufacturer.

Power Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Check the power light — When the power light is lit or blinking, the computer has power. If the power light is blinking, the computer is in standby mode—press the power button to exit standby mode. If the light is off, press the power button to turn on the computer.

Charge the battery — The battery charge may be depleted.

1. Reinstall the battery.
2. Use the AC adapter to connect the computer to an electrical outlet.
3. Turn on the computer.

Check the battery status light — If the battery status light flashes orange or is a steady orange the battery charge is low or depleted. Connect the computer to an electrical outlet.

If the battery status light flashes green and orange, the battery is too hot to charge. Shut down the computer, disconnect the computer from the electrical outlet, and then let the battery and computer cool to room temperature.

If the battery status light rapidly flashes orange, the battery may be defective. [Contact Dell](#).

Check the battery temperature — If the battery temperature is below 0° C (32° F), the computer will not start up.

Test the electrical outlet — Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

Check the AC adapter — Check the AC adapter cable connections. If the AC adapter has a light, ensure that the light is on.

Connect the computer directly to an electrical outlet — Bypass power protection devices, power strips, and the extension cable to verify that the computer turns on.

Eliminate possible interference — Turn off nearby fans, fluorescent lights, halogen lamps, or other appliances.

Adjust the power properties — See "[Power Management](#)."


Ensuring Sufficient Power for Your Computer

Your computer is designed to use the 50-W AC adapter; for optimum system performance, you should always use this adapter. You can also use the 65-W and 90-W AC adapters used in other Dell™ portable computers.

Printer Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

 **NOTE:** If you need technical assistance for your printer, contact the printer's manufacturer.

Check the printer documentation — See the printer documentation for setup and troubleshooting information.

Ensure that the printer is turned on

Check the printer cable connections —

1. See the printer documentation for cable connection information.
1. Ensure that the printer cables are securely connected to the printer and the computer.

Test the electrical outlet — Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

Verify that the printer is recognized by Windows —

1. Click the **Start** button, click **Control Panel**, and then click **Printers and Other Hardware**.
2. Click **View installed printers or fax printers**.


If the printer is listed, right-click the printer icon.

3. Click **Properties** and click the **Ports** tab. For a USB printer, ensure that the **Print to the following port(s)**: setting is **USB**.

Reinstall the printer driver — See the printer documentation for instructions

Scanner Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

 **NOTE:** If you need technical assistance for your scanner, contact the scanner's manufacturer.

Check the scanner documentation — See the scanner documentation for setup and troubleshooting information.

Unlock the scanner — Ensure that your scanner is unlocked if it has a locking tab or button.

Restart the computer and try the scanner again

Check the cable connections —

1. See the scanner documentation for cable connection information.
1. Ensure that the scanner cables are securely connected to the scanner and the computer.

Verify that the scanner is recognized by Microsoft Windows —


1. Click the **Start** button, click **Control Panel**, and then click **Printers and Other Hardware**.
2. Click **Scanners and Cameras**.

If your scanner is listed, Windows recognizes the scanner.

Reinstall the scanner driver — See the scanner documentation for instructions.

Sound and Speaker Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.


No sound from integrated speakers

Adjust the Windows volume control — Double-click the speaker icon in the lower-right corner of your screen. Ensure that the volume is turned up and that the sound is not muted. Adjust the volume, bass, or treble controls to eliminate distortion.

Adjust the volume using keyboard shortcuts — Press <Fn><End> to disable (mute) or reenable the integrated speakers.

Reinstall the sound (audio) driver — See "[Reinstalling Drivers and Utilities](#)."

No sound from external speakers

 **NOTE:** The volume control in some MP3 players overrides the Windows volume setting. If you have been listening to MP3 songs, ensure that you did not turn the player volume down or off.

Ensure that the subwoofer and the speakers are turned on — See the setup diagram supplied with the speakers. If your speakers have volume controls, adjust the volume, bass, or treble to eliminate distortion.

Adjust the Windows volume control — Click or double-click the speaker icon in the lower-right corner of your screen. Ensure that the volume is turned up and that the sound is not muted.

Disconnect headphones from the headphone connector — Sound from the speakers is automatically disabled when headphones are connected to the computer's front-panel headphone connector.

Test the electrical outlet — Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

Eliminate possible interference — Turn off nearby fans, fluorescent lights, or halogen lamps to check for interference.

Reinstall the audio driver —

See "[Reinstalling Drivers and Utilities](#)."

Run the Dell Diagnostics —

See "[Using the Dell Diagnostics](#)."

No sound from headphones

Check the headphone cable connection — Ensure that the headphone cable is securely inserted into the [headphone connector](#).

Adjust the Windows volume control — Click or double-click the speaker icon in the lower-right corner of your screen. Ensure that the volume is turned up and that the sound is not muted.

Touch Pad or Mouse Problems

Check the touch pad settings —

1. Click the **Start** button, click **Control Panel**, and then click **Printers and Other Hardware**.
2. Click **Mouse**.
3. Try adjusting the settings.

Check the mouse cable — Shut down the computer. Disconnect the mouse cable, check it for damage, and firmly reconnect the cable.

If you are using a mouse extension cable, disconnect it and connect the mouse directly to the computer.

To verify that the problem is with the mouse, check the touch pad —

1. Shut down the computer.
2. Disconnect the mouse.
3. Turn on the computer.
4. At the Windows desktop, use the touch pad to move the cursor around, select an icon, and open it.

If the touch pad operates correctly, the mouse may be defective.


Check the system setup program settings — Verify that the system setup program lists the correct device for the pointing device option. (The computer automatically recognizes a USB mouse without making any setting adjustments.)

Test the mouse controller — To test the mouse controller (which affects pointer movement) and the operation of the touch pad or mouse buttons, run the Mouse test in the **Pointing Devices** test group in the [Using the Dell Diagnostics](#).


Reinstall the touch pad driver — See "[Reinstalling Drivers and Utilities](#)."

Video and Display Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

If the display is blank

 **NOTE:** If you are using a program that requires a higher resolution than your computer supports, it is recommended that you attach an external monitor to your computer.

Check the battery — If you are using a battery to power your computer, the battery charge may be depleted. Connect the computer to an electrical outlet using the AC adapter, and turn on the computer.

Test the electrical outlet — Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

Check the AC adapter — Check the AC adapter cable connections. If the AC adapter has a light, ensure that the light is on.

Connect the computer directly to an electrical outlet — Bypass power protection devices, power strips, and the extension cable to verify that the computer turns on.

Adjust the power properties — Search for the keyword *standby* in the Windows Help and Support Center.

Switch the video image — If your computer is attached to an external monitor, press <Fn><F8> to switch the video image to the display.

If the display is difficult to read

Adjust the brightness — Press <Fn> and the up- or down-arrow.

Move the external subwoofer away from the computer or monitor — If your external speaker system includes a subwoofer, ensure that the subwoofer is at least 60 cm (2 ft) away from the computer or external monitor.

Eliminate possible interference — Turn off nearby fans, fluorescent lights, halogen lamps, or other appliances.

Rotate the computer to face a different direction — Eliminate sunlight glare, which can cause poor picture quality.

Adjust the Windows display settings —

1. Click the **Start** button and then click **Control Panel**.
2. Click **Appearance and Themes**.
3. Click the area you want to change or click the **Display** icon.
4. Try different settings for **Color quality** and **Screen resolution**.

Run the Video diagnostics tests — If no error message appears and you still have a display problem, but the display is not completely blank, run the **Video** device group in the [Using the Dell Diagnostics](#). Then [contact Dell](#).

See "Error Messages" — If an error message appears, see "[Error Messages](#)."

If only part of the display is readable

Connect an external monitor —

1. Shut down your computer and connect an external monitor to the computer.
2. Turn on the computer and the monitor and adjust the monitor brightness and contrast controls.

If the external monitor works, the computer display or video controller may be defective. [Contact Dell](#).

Specifications

Dell™ Latitude™ X1 User's Guide

Microprocessor	
Microprocessor types	Intel® Pentium® M
L1 cache	32 KB (internal)
L2 cache	2,048 KB
External bus frequency	400 MHz

System Information	
System chip set	Intel 915GMS
Data bus width	64 bits
DRAM bus width	64 bits
Microprocessor address bus width	32 bits
Flash EPROM	8 MB
Graphics bus	Intel UMA integrated graphics architecture
PCI bus	33 MHz

Memory	
Architecture	DDR2
Memory module connector	one user-accessible SODIMM socket
Memory module capacities	256, 512, 1024 MB
Memory type	1.8-V DDR2 SODIMM
Standard memory	256 MB
Maximum memory	1,280 MB
Clock speed	400 MHz

Ports and Connectors	
Video	15-hole connector
Audio	microphone connector, stereo headphone/speakers connector
USB	one 4-pin USB 2.0-compliant connector one 4-pin powered USB connector
Mini PCI	one Type IIIA Mini PCI card slot
Secure Digital memory slot	one secure digital memory slot
CompactFlash card slot	one CompactFlash card slot
Modem	RJ-11 port
Network adapter	RJ-45 port 10/100/1000 LAN
IEEE 1394	4-pin connector

Communications	
Modem:	
Type	integrated 56K v.92-capable modem daughter card
Controller	Conexant D110 MDC
Interface	internal AC'97 bus
Network adapter	10/100/1000 BaseT Bus Master Ethernet
Wireless	internal Mini PCI Wi-Fi (802.11b/g) wireless support

Video	
Video type	integrated with Intel 915GMS chip set

Core frequency	133 MHz
Video controller	Intel 915GMS graphics
Video memory:	
System memory, 128 MB	Maximum memory allocation support based on total system memory
System memory, 256+ MB	
LCD interface	WXGA

Audio	
Audio type	Sigmatel 9751
	Intel AC'97
Stereo conversion	18-bit (stereo analog-to-digital) and 20-bit (stereo digital-to-analog)
Interfaces:	
Internal	AC'97
External	microphone-in connector, stereo headphones/speakers connector
Speaker	1.0 W into one 8-ohm speaker
Internal speaker amplifier	1.0-W channel into 8 ohms mono
Volume controls	volume up/down menu, mute

Display	
Type (active-matrix TFT)	WXGA
Dimensions:	
Height	157.82 mm (6.2 inches)
Width	263.04 mm (10.4 inches)
Diagonal	306.8 mm (12.1 inches)
Maximum resolutions	1280 x 3 (RGB) x 768 at 262,000 colors
Refresh rate	60 Hz
Operating angle	0° (closed) to 180°
Viewing angles:	
Horizontal	± 40°
Vertical	+10°/-30°
Pixel pitch	0.205 mm horizontal x 0.205 mm vertical
Power Consumption:	
Panel with backlight (typical)	4.5 W
Controls	brightness can be controlled through keyboard shortcuts

Keyboard	
Number of keys	84 (U.S. and Canada); 85 (Europe); 88(Japan); 86 (Brazil)
Key travel	2.0 mm (0.08 inch)
Key spacing	18.0 mm (0.73 inch)
Layout	QWERTY/AZERTY/Kanji

Touch Pad	
X/Y position resolution (graphics table mode)	240 cpi
Size:	
Width	50.1-mm (1.97-inch) sensor-active area
Height	38.2-mm (1.5-inch) rectangle

Battery	
Type	3-cell 27-WHr "smart" lithium ion 6-cell 53-WHr "smart" lithium ion

Dimensions:	
Height	21 mm (0.83 inch) (27-WHR battery) 21 mm (0.83 inch) (53-WHR battery)
Width	204 mm (8.03 inches) (27-WHR battery) 204 mm (8.03 inches) (53-WHR battery)
Depth	33.5 mm (1.32 inches) (27-WHR battery) 52.2 mm (2.06 inches) (53-WHR battery)
Weight	165 g (0.36 lb) (27-WHR battery) 310 g (0.68 lb) (53-WHR battery)
Voltage	11.1 VDC
Charge time (approximate):	
Computer off	about 71 minutes with 27-WHR or 53-WHR battery Express Charge time
Life span (approximate)	300 discharge/charge cycles
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	-40° to 65°C (-40° to 149°F)

AC Adapter	
Input voltage	100–240 VAC
Input current (maximum)	1.5 A
Input frequency	50–60 Hz
Output current (maximum)	2.64 A (continuous)
Output power	50 W
Rated output voltage	19.0 VDC
Dimensions:	
Height	28.7 mm (1.13 inches)
Width	42 mm (1.66 inches)
Depth	96 mm (3.78 inches)
Weight (including cables and strap)	
With 3-foot power cord	296 g (0.66 lb)
With 6-foot power cord	400 g (0.88 lbs)
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	-40° to 65°C (-40° to 149°F)

Physical	
Height	25.0 mm (approximately 0.98 inch), depending upon point of measurement
Width	286 mm (11.26 inches)
Depth	196.8 mm (7.7 inches)
Weight	1140 g (2.52 lb) with 27-WHR battery

Environmental	
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	-40° to 65°C (-40° to 149°F)
Relative humidity (maximum):	
Operating	10% to 90% (noncondensing, maximum)
Storage	5% to 95% (noncondensing, maximum)
Maximum vibration (using a random-vibration spectrum that simulates user environment):	
Operating	0.66 GRMS
Storage	1.30 GRMS
Maximum shock (measured with hard drive in head-parked position and 2 ms half-sine pulse):	
Operating	122 G

Storage	163 G
Altitude (maximum):	
Operating	-15.2 to 3,048 m (-50 to 10,000 ft)
Storage	-15.2 to 10,668 m (-50 to 35,000 ft)

Travelling with Your Computer

Dell™ Latitude™ X1 User's Guide

- [Identifying Your Computer](#)
 - [Packing the Computer](#)
 - [Travel Tips](#)
-

Identifying Your Computer

- 1 Attach a name tag or business card to the computer.
 - 1 Write down your Service Tag and store it in a safe place away from the computer or carrying case. Use the Service Tag if you need to report a loss or theft to law enforcement officials and to Dell.
 - 1 Create a file on the Microsoft® Windows® desktop called **if_found**. Place information such as your name, address, and phone number in this file.
 - 1 Contact your credit card company and ask if it offers coded identification tags.
-

Packing the Computer

- 1 Remove any external devices attached to the computer and store them in a safe place.
 - 1 Fully charge the main battery and any spare batteries that you plan to carry with you.
 - 1 Shut down the computer.
 - 1 Disconnect the AC adapter.
- ➔ **NOTICE:** When the display is closed, extraneous items on the keyboard or palm rest could damage the display.
- 1 Remove any extraneous items, such as paper clips, pens, and paper, from the keyboard and palm rest and close the display.
 - 1 Use the optional Dell™ carrying case to pack the computer and its accessories together safely.
 - 1 Avoid packing the computer with items such as shaving cream, colognes, perfumes, or food.
 - 1 Protect the computer, the batteries, and the hard drive from hazards such as extreme temperatures and overexposure to sunlight, dirt, dust, or liquids.
- ➔ **NOTICE:** If the computer has been exposed to extreme temperatures, allow it to acclimate to room temperature for 1 hour before turning it on.
- 1 Pack the computer so that it does not slide around in the trunk of your car or in an overhead storage compartment.
- ➔ **NOTICE:** Do not check the computer as baggage.
-

Travel Tips


- ➔ **NOTICE:** Do not move the computer while using the optical drive. Doing so can result in loss of data.
- 1 Consider disabling wireless activity on your computer to maximize battery operating time. To disable wireless activity, press <Fn><F2>.
 - 1 Consider changing your power management options to maximize battery operating time.
 - 1 If you are travelling internationally, carry proof of ownership—or of your right to use the computer if it is company-owned—to speed your passage through customs. Investigate the customs regulations of the countries you plan to visit, and consider acquiring an international carnet (also known as a *merchandise passport*) from your government.
 - 1 Ensure that you know which electrical outlets are used in the countries you will visit, and have appropriate power adapters.
 - 1 Check with your credit card company for information about the kinds of emergency travel assistance it offers to users of portable computers.

Travelling by Air

- 1 Ensure that you have a charged battery available in case you are asked to turn on the computer.
- ➔ **NOTICE:** Do not walk the computer through a metal detector. Send the computer through an X-ray machine or have it hand-inspected.
- 1 Before you use the computer on an airplane, verify that such usage is permitted. Some airlines forbid the use of electronic devices during the flight. All airlines forbid the use of electronic devices during takeoff and landing.

If Your Computer Is Lost or Stolen

- 1 Call a law enforcement agency to report the lost or stolen computer. Include the Service Tag in your description of the computer. Ask that a case number be assigned and write down the number, along with the name, address, and phone number of the law enforcement agency. If possible, obtain the name of the investigating officer.

 **NOTE:** If you know where the computer was lost or stolen, call a law enforcement agency in that area. If you do not know, call a law enforcement agency where you live.

- 1 If the computer belongs to a company, notify the security office of the company.
- 1 Contact Dell customer service to report the missing computer. Provide the computer Service Tag, the case number, and the name, address, and phone number of the law enforcement agency to which you reported the missing computer. If possible, give the name of the investigating officer.

The Dell customer service representative will log your report under the computer Service Tag and flag the computer as missing or stolen. If someone calls Dell for technical assistance and gives your Service Tag, the computer is identified automatically as missing or stolen. The representative will attempt to get the phone number and address of the caller. Dell will then contact the law enforcement agency to which you made the report of the missing computer.

Connecting to a Wireless Local Area Network

Dell™ Latitude™ X1 User's Guide

- [Determining Your Network Type](#)
- [Connecting to a Wireless Network in Microsoft® Windows® XP](#)

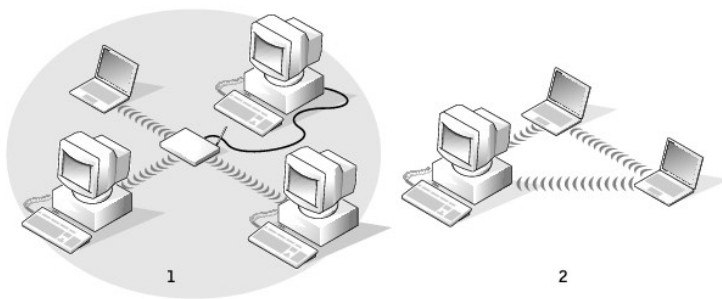
NOTE: These networking instructions do not apply to internal cards with Bluetooth® wireless technology or cellular products.

NOTE: To configure a wireless computer running the Microsoft® Windows® 2000 operating system, see the user's guide that came with your wireless network adapter.

Determining Your Network Type

NOTE: Most wireless networks are of the infrastructure type.

Wireless networks fall into two categories—infrastructure networks and ad-hoc networks. An infrastructure network uses routers or access points to connect several computers. An ad-hoc network does not use routers or access points and consists of computers that broadcast to one another. For additional assistance with setting up your wireless connection, go to support.dell.com and search for the keyword *wireless setup*.



1	infrastructure network
2	ad-hoc network

Connecting to a Wireless Network in Microsoft® Windows® XP

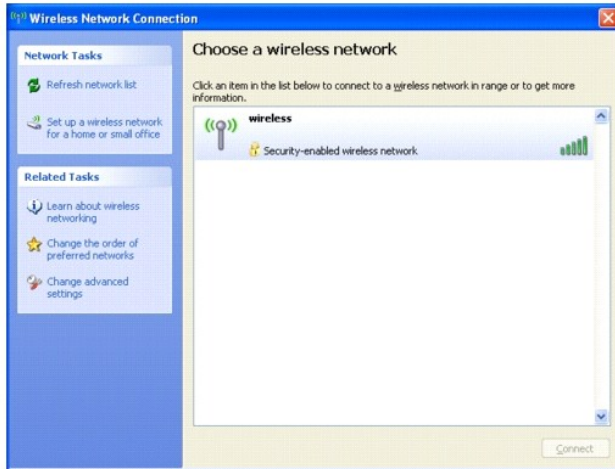
Your wireless network card requires specific software and drivers in order to connect to a network. The software is already installed. If the software is removed or corrupted, follow the instructions included in the user's guide for your wireless network card. The user's guide is located on your *Drivers and Utilities* CD (that came with your computer) in the "User's Guides-Network User's Guides" category. The user's guide is also available on the Dell Support website at support.dell.com.


When you turn on your computer, a pop-up appears from the network icon in the notification area (located in the lower-right corner of the Windows desktop) whenever a network, for which your computer is not configured, is detected in the area.





1. Click either the pop-up or the network icon to configure your computer for one of the available wireless networks.

The **Wireless Network Connections** window lists the wireless networks available in your area.

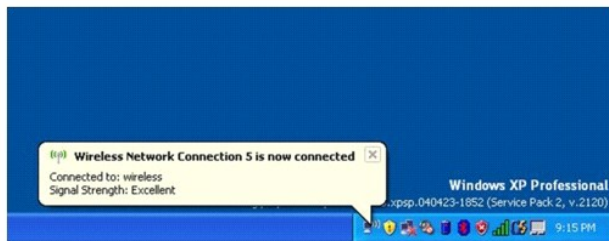


2. Click to select the network you want to configure, and then click **Connect** or double-click the network name in the list. If you select a secure network (identified by a  icon), you must enter a WEP or WPA password when prompted.

 **NOTE:** Network security settings are unique to your network. Dell cannot provide this information.

 **NOTE:** Your computer can take up to 1 minute to connect to the network.

After your computer is configured for the wireless network you selected, another pop-up notifies you that your computer is connected to the network you selected.




Thereafter, whenever you log on to your computer in the area of the wireless network, the same pop-up notifies you of the wireless network connection.

Using Microsoft® Windows® XP

Dell™ Latitude™ X1 User's Guide

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 **NOTE:** Windows XP Home Edition and Windows XP Professional offer different features and appearances. Also, options available in Windows XP Professional vary depending on whether the computer is connected to a domain.

Help and Support Center

The Help and Support Center provides help with the Windows XP operating system and other support and educational tools. To access the Help and Support Center, click the **Start** button and click **Help and Support**.

Switching to Classic View

You can change the appearance of the Control Panel, the **Start** menu, and the Windows desktop to the *classic view* of previous Windows operating systems.

Control Panel

The Control Panel presents information as task-oriented categories. If you are accustomed to performing a particular task with the icon-oriented classic Control Panel, you can switch to the classic icon view.

1. Click the **Start** button and click **Control Panel**.
2. Click **Switch to Classic View** or **Switch to Category View** in the upper-left area of the **Control Panel** window.

Start Menu

1. Right-click the empty area on the taskbar.
2. Click **Properties**.
3. Click the **Start Menu** tab.
4. Select **Classic Start Menu** and click **OK**.

Window and Button Appearance

1. Right-click anywhere on the main desktop screen and click **Properties**.
 2. Click the **Appearance** tab.
 3. From the **Windows and buttons** drop-down menu, select **Windows Classic style**.
 4. To customize color, font, and other classic desktop options, click **Advanced**.
 5. When you have completed your appearance selections, click **OK**.
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Desktop Cleanup Wizard

By default, the Desktop Cleanup Wizard moves program icons that are not frequently used from your desktop to a designated folder 7 days after you first start your computer and every 60 days after that. The appearance of the **Start** menu changes as program icons are moved.

To turn off the Desktop Cleanup Wizard:

1. Right-click an empty spot on the desktop and click **Properties**.
2. Click the **Desktop** tab and click **Customize Desktop**.
3. Click **Run Desktop Cleanup Wizard every 60 days** to remove the check mark.
4. Click **OK**.

To run the Desktop Cleanup Wizard at any time:


1. Right-click an empty spot on the desktop and click **Properties**.
2. Click the **Desktop** tab and click **Customize Desktop**.
3. Click **Clean Desktop Now**.
4. When the Desktop Cleanup Wizard appears, click **Next**.
5. In the list of shortcuts, deselect any shortcuts you want to leave on the desktop and then click **Next**.
6. Click **Finish** to remove the shortcuts and close the wizard.

Transferring Information to a New Computer

The Microsoft® Windows® XP operating system provides a Files and Settings Transfer wizard to move data from the source computer to the new computer. You can move data such as:

- 1 E-mails
- 1 Toolbar settings
- 1 Window sizes
- 1 Internet bookmarks


You can transfer the data to the new computer over a network or serial connection, or you can store it on a removable medium, such as a writable CD or floppy disk, for transfer to the new computer.

 **NOTE:** You can transfer information from the old computer to the new computer by directly connecting a serial cable to the input/output (I/O) ports of the two computers. To transfer data over a serial connection, you must access the Network Connections utility from the Control Panel and perform additional configuration steps, such as setting up an advanced connection and designating the host computer and the guest computer.

For instructions on setting up a direct cable connection between two computers, see the Microsoft Knowledge Base Article #305621, titled *How to Set Up a Direct Cable Connection Between Two Computers in Windows XP*.

For transferring information to a new computer, you must run the Files and Settings Transfer wizard. You can use the *Operating System* CD for this process or you can create a Wizard disk with the Transfer Wizard utility.

Running the Files and Settings Transfer Wizard With the Operating System CD

 **NOTE:** This procedure requires the Operating System CD. This CD is optional and may not be included with all computers.

To prepare the new computer for the file transfer:

1. Start the **Files and Settings Transfer Wizard**.
2. When the **Files and Settings Transfer Wizard** welcome screen appears, click **Next**.
3. On the **Which computer is this?** screen, click **New Computer** and click **Next**.
4. On the **Do you have a Windows XP CD?** screen, click **I will use the wizard from the Windows XP CD** and click **Next**.
5. When the **Now go to your old computer** screen appears, go to your old or source computer. Do *not* click **Next** at this time.

To copy data from the old computer:

1. On the old computer, insert the Windows XP *Operating System* CD.

2. On the **Welcome to Microsoft Windows XP** screen, click **Perform additional tasks**.
3. Under **What do you want to do?**, click **Transfer files and settings**.
4. On the **Files and Settings Transfer Wizard** welcome screen, click **Next**.
5. On the **Which computer is this?** screen, click **Old Computer** and click **Next**.
6. On the **Select a transfer method** screen, click the transfer method you prefer.
7. On the **What do you want to transfer?** screen, select the items you want to transfer and click **Next**.
After the information has been copied, the **Completing the Collection Phase** screen appears.
8. Click **Finish**.

To transfer data to the new computer:

1. On the **Now go to your old computer** screen on the new computer, click **Next**.
2. On the **Where are the files and settings?** screen, select the method you chose for transferring your settings and files and click **Next**.
The wizard reads the collected files and settings and applies them to your new computer.
When all of the settings and files have been applied, the **Finished** screen appears.
3. Click **Finished** and restart the new computer.

Running the Files and Settings Transfer Wizard Without the Operating System CD

To run the Files and Settings Transfer Wizard without the *Operating System* CD, you must create a Wizard disk that will allow you to create a backup image file to removable media.

To create a Wizard disk, use your new computer with Windows XP and perform the following steps:

1. Click the **Start** button.
2. Click **Files and Settings Transfer Wizard**.
3. When the **Files and Settings Transfer Wizard** welcome screen appears, click **Next**.
4. On the **Which computer is this?** screen, click **New Computer** and click **Next**.
5. On the **Do you have a Windows XP CD?** screen, click **I want to create a Wizard Disk in the following drive:** and click **Next**.
6. Insert the removable media, such as a floppy disk or CD, and click **OK**.
7. When the disk creation completes and the **Now go to your old computer** message appears, *do not* click **Next**.
8. Go to the old computer.

To copy data from the old computer:

1. On the old computer, insert the removable **Wizard Disk**.
2. Click the **Start** button and click **Run**.
3. In the **Open** field on the **Run** window, type in **a:\fastwiz** and click **OK**.
4. On the **Files and Settings Transfer Wizard** welcome screen, click **Next**.
5. On the **Which computer is this?** screen, click **Old Computer** and click **Next**.
6. On the **Select a transfer method** screen, click the transfer method you prefer.
7. On the **What do you want to transfer?** screen, select the items you want to transfer and click **Next**.

After the information has been copied, the **Completing the Collection Phase** screen appears.

8. Click **Finish**.


To transfer data to the new computer:

1. On the **Now go to your old computer** screen on the new computer, click **Next**.
2. On the **Where are the files and settings?** screen, select the method you chose for transferring your settings and files and click **Next**. Follow the instructions on the screen.

The wizard reads the collected files and settings and applies them to your new computer.

When all of the settings and files have been applied, the **Finished** screen appears.

3. Click **Finished** and restart the new computer.


 **NOTE:** For more detailed information about this procedure, see the dell.support.com website for document #PA1089586, titled: How Do I Transfer Files From My Old Computer to My New Dell Computer Using the Microsoft® Windows® XP Operating System?

User Accounts and Fast User Switching

Adding User Accounts


After the Microsoft® Windows® XP operating system is installed, the administrator or a user with administrator rights can create additional user accounts.

1. Click the **Start** button and click **Control Panel**.
2. In the **Control Panel** window, click **User Accounts**.
3. Under **Pick a task**, click **Create a new account**.
4. Under **Name the new account**, type the name of the new user and click **Next**.
5. Under **Pick an account type**, click one of the following options:
 1. **Computer administrator** — You can change all computer settings.
 1. **Limited** — You can change only your own personal settings, such as your password. You cannot install programs or use the Internet.

 **NOTE:** Additional options may be available, depending on whether you are using Windows XP Home Edition or Windows XP Professional. Also, options available in Windows XP Professional vary depending on whether your computer is connected to a domain.

6. Click **Create Account**.

Fast User Switching

 **NOTE:** Fast User Switching is unavailable if your computer is running Windows XP Professional and is a member of a computer domain, or if your computer has less than 128 MB of memory.

Fast User Switching allows multiple users to access one computer without requiring the previous user to log off.

1. Click the **Start** button and click **Log Off**.
2. In the **Log Off Windows** window, click **Switch User**.

When you use Fast User Switching, programs that previous users were using remain running in the background, which might slow your computer's response time. Also, multimedia programs, such as games and DVD software, might not work with Fast User Switching. For more information, see the [Windows Help and Support Center](#).

Setting Up a Home and Office Network

The Windows XP operating system provides a Network Setup Wizard to guide you through the process of sharing files, printers, or an Internet connection between computers in a home or small office.

1. Click the **Start** button, point to **All Programs**→ **Accessories**→ **Communications**, and then click **Network Setup Wizard**.
2. On the welcome screen, click **Next**.
3. Click **Checklist for creating a network**.

 **NOTE:** Selecting the connection method This computer connects directly to the Internet enables the integrated [firewall](#) provided with Windows XP

4. Complete the checklist and required preparations, and return to the Network Setup Wizard.
 5. Follow the instructions on the screen.
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Internet Connection Firewall

The Internet Connection Firewall provides basic protection from unauthorized access to the computer while the computer is connected to the Internet. The firewall is automatically enabled when you run the Network Setup Wizard. When the firewall is enabled for a network connection, the firewall icon appears with a red background in the **Network Connections** portion of the Control Panel.

Note that enabling the Internet Connection Firewall does not reduce the need for virus-checking software.

For more information, see the Windows Help and Support Center.