

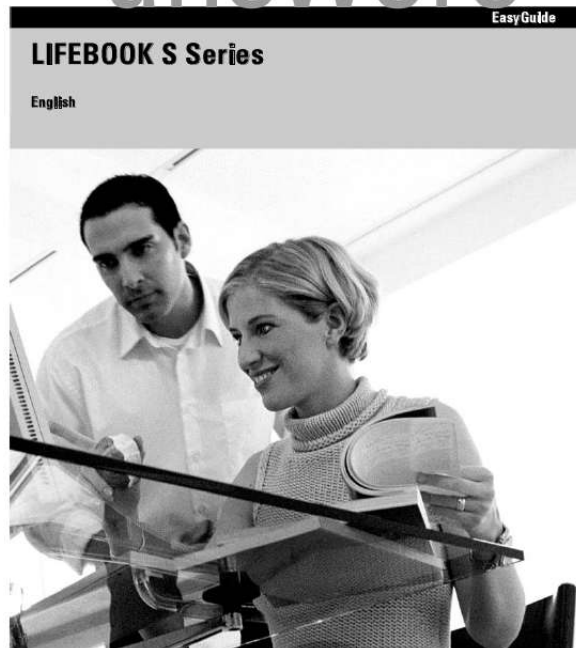


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You can read the recommendations in the user guide, the technical guide or the installation guide for FUJITSU SIEMENS LIFEBOOK S. You'll find the answers to all your questions on the FUJITSU SIEMENS LIFEBOOK S in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual FUJITSU SIEMENS LIFEBOOK S
User guide FUJITSU SIEMENS LIFEBOOK S
Operating instructions FUJITSU SIEMENS LIFEBOOK S
Instructions for use FUJITSU SIEMENS LIFEBOOK S
Instruction manual FUJITSU SIEMENS LIFEBOOK S

answers²



FUJITSU COMPUTERS
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Manual abstract:

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.....1 Notational conventions

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.....95 Recycling and disposal symbol describes activities that must be performed in the order shown.

indicates screen outputs. indicates programme names, commands, or menu items. indicate names of chapters, data carriers, and terms that are being emphasised. 2 A26391-K144-Z120-1-7619, edition 2 Important notes Here you will find essential safety information regarding your notebook. The other notes provide useful information on your notebook.

Safety notes ! Pay attention to the information provided in the "Safety" manual and in the following security notes. Observe the sections in the manual marked with the symbol on the left. When connecting and disconnecting cables, observe the relevant notes in this operating manual. When cleaning the device, please observe the relevant notes in the "Cleaning the notebook" paragraph. Only use batteries designed for this notebook.

Do not store batteries for longer periods in the notebook. Take care not to drop the batteries or otherwise damage their casing (fire risk). If the rechargeable batteries are defective, they must not be used. Do not touch the contacts of the batteries. Never interconnect the positive and negative terminals of a battery. Used batteries must be disposed of in accordance with local regulations (special waste). If a lithium battery (button cell) is installed in the notebook for real-time buffering, please note that: The lithium battery may be replaced only by authorised personnel. Incorrect handling may lead to a risk of explosion. The lithium battery may be replaced only with an identical battery or with a type recommended by the manufacturer. The lithium battery must be disposed of in accordance with local regulations concerning special waste.

All batteries containing pollutants are marked with one of the two symbols below (crossed-out garbage can). A26391-K144-Z120-1-7619, edition 2 3 Important notes In addition, the marking is provided with the chemical symbol of the heavy metal decisive for the classification as a pollutant. Cd Hg Pb Cadmium Mercury Lead Your notebook is equipped with numerous security functions that offer you a high level of security according to a multi-level concept. Detailed information can be found in "Security functions" chapter. If you have a device with a wireless LAN/ Bluetooth, also observe the information in the "Additional safety precautions for devices with wireless LAN/ Bluetooth" section. This notebook complies with the relevant safety regulations for data processing equipment. If you have questions as to whether you can set up the notebook in the intended environment, please contact your sales point or our hotline/help desk. Additional safety precautions for devices with wireless LAN/ Bluetooth If a radio component (Wireless LAN or Bluetooth) is integrated in your notebook, you must be sure to observe the following safety precautions when using your notebook: The transmitted radio waves can cause an unpleasant humming in hearing aids. Switch off the notebook when you are in an aircraft or driving in a car. Switch off the radio component on the notebook (the On/Off switch must be in the "OFF" position) when you are in a hospital, an operating room or near a medical electronics system.

The transmitted radio waves can impair the operation of the medical devices. Keep the notebook at least 20 cm from a pacemaker, as otherwise the proper operation of the pacemaker may be impaired by radio waves. Do not bring the notebook near flammable gases or into hazardous environments (e.g. paintshops) with the radio component switched on, as the transmitted radio waves can cause an explosion or a fire (the On/Off switch must be in the "OFF" position).

The range of the radio connection is dependent on environmental and ambient conditions. With data traffic via a wireless connection, it is also possible for unauthorised third parties to receive data. The company Fujitsu Siemens Computers GmbH cannot be held responsible for radio or television faults arising from unauthorised changes made to this device.



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Fujitsu Siemens Computers GmbH is, furthermore, not responsible for replacing and / or exchanging connector cables and devices which have not been specified by Fujitsu Siemens Computers GmbH. The user is solely responsible for repairing faults arising from such unauthorised changes made to a device and for replacing and/or exchanging devices.

4 A26391-K144-Z120-1-7619, edition 2 Important notes Notes on installing and removing boards and modules ! Only qualified technicians should repair the device. Unauthorised opening or incorrect repair may greatly endanger the user (electric shock, fire risk). Boards with electrostatic sensitive devices (ESD) are identifiable by the label shown. When you handle boards fitted with ESDs, you must, under all circumstances, observe the following points: You must statically discharge yourself before working with boards (e.g. by touching a grounded object). The equipment and tools you use must be free of static charges. Pull out the power connector and remove the battery before you install or remove boards. Always hold boards with ESDs by their edges. Never touch pins or conductors on boards fitted with ESDs.

A26391-K144-Z120-1-7619, edition 2 5 Important notes Energy saving If you will not be using your notebook, switch it off. Make use of the device's energy saving functions (see "Working with the notebook"). The notebook uses less power when the power management features are enabled. You will then be able to work for longer before having to recharge the battery. If a monitor with energy saving features is connected to your notebook, you can use the Screen Saver tab to activate the energy saving features of the monitor. Select the following item in the start menu: Settings - Control Panel - Display - Display Properties - Screen Saver - Energy saving functions for the display. You can set additional energy saving functions in the start menu by selecting the following item: Settings - Control Panel - Energy - Extended. Storing the battery Store the battery in a fully charged state. The battery should be stored in a dry area at a temperature between 0°C and +30°C. The lower the temperature at which the batteries are stored, the lower is the rate of self-discharge.

If storing for a long period of time (longer than two months) batteries should be fully charged before storage. To be able to make use of the optimal charging capacity of the batteries, the battery should be completely discharged and then fully recharged. i If you do not use the batteries for long periods, remove them from the notebook. Never store the batteries in the unit. 6 A26391-K144-Z120-1-7619, edition 2 Important notes Transporting the notebook Please observe the points listed below when transporting your notebook.

Before you travel Back up important data stored on your hard disk. Switch off the radio component (Wireless LAN/Bluetooth) for security reasons when you cannot exclude that the transmitted radio waves can negatively affect electrical and electronic devices in your surrounding area. Disconnect the notebook from the Port Replicator. If you wish to use your notebook during a flight, first check with the flight attendants if it is permissible to do so. If you are travelling abroad, ensure that the power adapter can be operated with the local mains voltage.

If this is not the case, obtain the appropriate power adapter for your notebook. Do not use any other voltage converter! i If you travel in another country, check whether the local power supply and the specifications of the power cable are compatible. If this is not the case, buy a power cable that matches the local conditions. Do not use a connection adapter for electrical devices to connect the notebook. If you use a modem, incompatibilities with the local telecommunications system may result. Transporting the notebook Remove all data carriers (e.g. CD) from the drives. Switch the notebook off with the Suspend/Resume button (see "Working with the notebook" chapter, "Switching off the notebook" section). Unplug the power adapter and all external devices from the mains outlet.

Disconnect the power adapter cable and the data cables for all external devices. Close the connector covers. Close the LCD screen so that it locks into place. If the device needs to be shipped, use the original packaging or other suitable packaging to protect it from damage caused by mishandling. To protect against damaging jolts and bumps, use a notebook carrying case to transport your notebook. Fujitsu Siemens Computers offers a number of solutions for transporting your notebook. The current offering can be viewed on the Internet at <http://www.e-shop2.de>. Protect the notebook from severe shocks and extreme temperatures (e.

g. direct sunlight in a car). A26391-K144-Z120-1-7619, edition 2 7 Important notes Cleaning the notebook Switch the notebook off. Pull the power plug of the network adapter out of the mains outlet. Remove the battery.

! Do not clean any interior parts yourself; leave this job to a service technician. Do not use any cleaning agents that contain abrasives or may corrode plastic. The use of improper cleaning agents can damage the markings on the keyboard and the notebook, the paintwork of the device or the device itself. Ensure that no liquid enters the notebook. Wipe the casing with a dry cloth.

If particularly dirty, use a cloth that has been moistened in mild domestic detergent and then carefully wrung out. To clean the touchpad, you can use disinfectant wipes. Wipe the LCD screen with a soft, moistened cloth. 8 A26391-K144-Z120-1-7619, edition 2 Preparing the notebook for use ! Observe the relevant notes in the "Important notes" chapter and in the manual about your radio component. You must charge the battery and install the application programmes before you can work with the notebook. The operating system and drivers required are preinstalled. When not plugged into a mains outlet, the notebook runs on its built-in battery. You can increase the battery's life by enabling the system's energy saving functions. If you use the notebook in a normal office situation, run it from the mains using the power adapter. Please see the "Connecting external devices" chapter for instructions on how to connect devices such as a mouse and a printer to the notebook.

Unpacking and checking the delivery Unpack all the individual parts. Check the delivery for damage incurred during transportation. Check whether the delivery agrees with the details in the inventory. i Should you discover that the delivery does not correspond to the inventory, notify your local sales outlet immediately. Do not discard the original packing material of the devices. Keep the original packing material in case you need to ship the equipment again. Selecting a location Select a suitable location for the notebook before setting it up.



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Consider the following points when looking for a location: Do not place it on a soft surface (e.g., a carpet or soft furnishings).

The space between the notebook's feet must be clear. Place the notebook on a stable, flat, nonslippery surface. In view of the multitude of different finishes used on furniture, it is possible that the rubber feet of the notebook will mark the surface they stand on. Never place the notebook and the power adapter on a heat-sensitive surface. The notebook and the power adapter should be at least 200 mm apart.

Keep other objects 100 mm away from the notebook and its power adapter to ensure adequate ventilation. Never cover the fan intake or exhaust openings of the notebook or the power adapter. Do not expose the notebook to extreme environmental conditions. Protect the notebook from dust, humidity, and heat.

A26391-K144-Z120-1-7619, edition 2 9 Preparing the notebook for use Connecting the power adapter ! Please take note of the information in the section "Selecting a location".

The power cable supplied conforms to the requirements of the country in which you purchased your notebook. Make sure that the power cable is approved for use in the country in which you intend to use it. The power adapter's AC cord should only be connected to a mains outlet if the notebook is connected to the power adapter. Do not use the power adapter for other notebooks or devices. Do not use a power adapter that is not specially intended for this notebook. 1 3 2 Connect the power adapter cable to the DC jack (DC IN) of the notebook (1). Connect the power cable to the power adapter (2). Plug the power cable into the mains supply (3). 2 1 Press the release button (1), and unfold the LCD screen upwards (2). 10 A26391-K144-Z120-1-7619, edition 2 Preparing the notebook for use The power indicator of the notebook appears in the status indicator panel.

and the battery indicator appear in the The battery will charge. The charging indicator status indicator panel. i The meaning of the various displays can be found in the section "Indicators" in the "Working with the notebook" chapter. A26391-K144-Z120-1-7619, edition 2 11 Preparing the notebook for use Switching on the notebook for the first time ! When you switch on your notebook for the first time, the supplied software is installed and configured. Due to the fact that this installation must not be interrupted, you should set aside enough time for it to be fully completed and connect the notebook to the mains outlet using the power adapter. During installation, the notebook may only be rebooted when you are requested to do so! Switch the notebook on (see "Working with the notebook" chapter, "Switching on the notebook" section). During installation, follow the instructions on screen. Consult the operating system manual if there is anything unclear about the requested input data. i If there is installed on your notebook a Windows operating system the "Drivers°&°Utilities" CD is included in the delivery scope. You will find further information on the system, drivers, utilities, updates, manuals etc.

on this "Drivers & Utilities" CD. 12 A26391-K144-Z120-1-7619, edition 2 Working with the notebook This chapter describes the basics for operating your notebook. Please see the "Connecting external devices" chapter for instructions on how to connect devices such as a mouse and a printer to the notebook. ! Please take note of the information in the "Important notes" chapter. Switching on the notebook 2 1 Press the release button (1), and unfold the LCD screen upwards (2).

A26391-K144-Z120-1-7619, edition 2 13 Working with the notebook 2 Press the Suspend/Resume button (1) to switch on the notebook. of the notebook appears in the status indicator panel (2). The power-on indicator ! i After switch-on a self-test (POST, Power On Self Test) is automatically carried out. Never switch the notebook off during the self-test. You can configure the Suspend/Resume button under Start - Control Panel - Performance and Maintenance - Power Options - Advanced.

If you have assigned a password, you must enter this when requested to do so, in order to start the operating system password. Detailed information can be found in "Security functions" chapter. 14 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Switching off the notebook Close all programmes and shut down your operating system (please see operating system manual). i If the notebook cannot be shut down properly, press the Suspend/Resume button for approx. four seconds. The notebook switches off. However, any data which have not been saved may be lost. Close the LCD screen so that it locks into place. A26391-K144-Z120-1-7619, edition 2 15 Working with the notebook Indicators The status indicator panel is a small LCD panel on which various symbols appear. These symbols provide information about the status of the power supply, the drives, and the keyboard functions.

Power-on indicator Power indicator Battery charging indicator First battery indicator Second battery indicator CD/DVD indicator 1 2 Hard disk indicator PC card indicators Num Lock indicator Caps Lock indicator Scroll indicator (Scroll Lock) Security Panel indicator 1 A 16 A26391-K144-Z120-1-7619, edition 2 Working with the notebook The meaning of the symbols are as follows: Power-on indicator The indicator lights up: The notebook is on. The indicator flashes (1 second on / 1 second off): The notebook is in energysaving mode. The display is not shown: the notebook is switched off. Power indicator The power adapter is supplying power to the notebook. Battery charging indicator The indicator lights up: The battery is charging. The indicator blinks: The battery is too hot or too cold for charging. Battery indicators The charging state of the batteries is shown with the two battery indicators. 1 indicates that the information applies to the first battery in the battery compartment. 2 indicates that the information applies to the second battery in the module bay. indicates that the battery is 0%-25% charged.

indicates that the battery is 25%-50% charged indicates that the battery is 50%-75% charged. indicates that the battery is 75%-100% charged. CD/DVD indicator The indicator is lit: The CD/DVD in the optical drive is being accessed. You may only remove the CD/DVD when the indicator is dark. The indicator flashes: an CD/DVD is being inserted or removed.

Hard disk indicator The hard disk drive of the notebook is being accessed. PC card indicators The system accesses a PC Card. 1 Num Lock indicator The Num Lock key has been pressed. The virtual numeric keypad is activated. You can output the characters located at the upper right on the keys.



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A26391-K144-Z120-1-7619, edition 2 17 Working with the notebook A Caps Lock indicator The Caps Lock key has been pressed. All the characters you type appear in uppercase. In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed. Scroll indicator (Scroll Lock) The key combination Fn + Scr has been pressed. The effect this key has varies from programme to programme. Security Panel indicator The security panel is active. Supervisor and user passwords are set. i You will find the information on the security panel in "Security functions" chapter. 18
A26391-K144-Z120-1-7619, edition 2 Working with the notebook Keyboard i The keyboard of your notebook is subject to continuous wear due to normal use. The keyboard markings are subjected to particularly high loads.

The keyboard markings can wear off in the course of using the notebook. The keyboard has been designed to provide all the functions of an enhanced keyboard. Some enhanced keyboard functions are mapped with key combinations. The following description of keys and key combinations refers to Windows. & 7 7 & 7 & 7 Num Scr & 7 7 7 7 \$ \$ 4 \$ 4 4 Alt Gr \$ 4 Backspace key The Backspace key deletes the character to the left of the cursor. Tab key The Tab key moves the cursor to the next tab stop. Enter key (return) The enter key terminates a command line. The command you have entered is executed when you press this key. A26391-K144-Z120-1-7619, edition 2 19 Working with the notebook Caps Lock key The Caps Lock key activates uppercase mode (CapsLK indicator lit). The Caps Lock function causes all the characters you type to appear in uppercase.

In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed. To cancel the Caps Lock function, simply press the Caps Lock key again. Shift key The Shift key causes uppercase characters to appear. In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed. Alt Gr Alt Gr key The Alt Gr key allows one to type the characters printed on the lower right of the keycaps (e.g. { in the case of the 7 key on the German keyboard). Fn Fn key The Fn key enables the special functions indicated on overlay keys (see "Key combinations" section). Cursor keys The cursor keys move the cursor in the direction of the arrow, i.e.

up, down, left, or right. Pause Break Pause key The Pause key temporarily suspends display output. Output will resume when you press any other key. Start key The Start key invokes the Windows Start menu. Menu key The Menu key invokes the menu for the marked item. 20 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Virtual numeric keypad The keyboard of your notebook does not have a separate number block. To provide the convenience of a numeric keypad, your keyboard is equipped with a virtual numeric keypad. The special keys of the virtual numeric keypad are recognisable by the numbers and symbols printed in the upper right corner of each key. If you have switched on the virtual numeric keypad, you can output the characters shown on the upper right of the keys. & 7 U 1 8 I J M * () 7 8 9 / 9 O K < , 0 P L > .

: ; ? / 2 4 5 6 * 1 2 3 - 0 , + 1 = Characters enabled when Num Lock indicator is not lit (see "Indicators" section). 2 = Characters enabled when Num Lock indicator is lit (see "Indicators" section). A26391-K144-Z120-1-7619, edition 2 21 Working with the notebook Key combinations The following description of key combinations refers to functions when using Microsoft Windows. Some of the following key combinations may not function in other operating systems and with some device drivers. Key combinations are performed as follows: Fn Press and hold the first key in the combination. While holding the first key down, press the other key or keys in the combination. + F3 Switching the loudspeakers on/off This key combination switches your device's integrated loudspeakers off and on. Each time the loudspeaker switches on you will hear an acoustic signal. Fn + F5 Enlarge MS-DOS screen This key combination enlarges the screen in the MS-DOS mode to the fullscreen mode or switches it back to the normal display mode. Fn + F6 Decreasing screen brightness This key combination decreases screen brightness.

Fn + F7 Increasing screen brightness This key combination increases screen brightness. Fn + F8 Reducing the volume This key combination reduces the volume of the integrated loudspeakers. Fn + F9 Increasing the volume This key combination raises the volume of the integrated loudspeakers. Fn + F10 Switching between internal and external screen If an external monitor is connected, the monitor on which the output is to be displayed can be selected with this key combination. You can opt to use: just the notebook's LCD screen just the external monitor both the LCD screen and the external monitor.

Ctrl + C Halting the current operation This key combination can be used to halt an operation instantly without clearing the keyboard buffer. + Backtab (Shift+Tab) This key combination moves the cursor back to the previous tabular stop. 22 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Easy Launch keys Your notebook is equipped with four configurable Easy Launch keys. 1 2 3 4 Enter 1 = Key 1 This key could be preset. However, you can also configure this key as desired.

2 = Key 2 This key could be preset. However, you can also configure this key as desired. 3 = Key 3 (preset as Internet key) With this key you can start the standard internet browser for your system. However, you can also configure this key as desired. 4 = Key 4 (preset as E-mail key) Use this key to start the standard e-mail programme for your system. However, you can also configure this key as desired. Configuring Easy Launch keys With the Application Panel you can assign various functions to the Easy Launch keys. You will find the Application Panel under Start - Control Panel - Additional Control Panel Options - Application Panel. A26391-K144-Z120-1-7619, edition 2 23 Working with the notebook Touchpad / TouchStick and touchpad buttons 1 2 3 4 1 = TouchStick 2 = Touchpad 3 = Touchpad buttons 4 = Touchpad scroll button Your notebook offers a Touchpad (and as an option also a TouchStick) for mouse control. You can move the pointer on the screen with the TouchStick (1) or the Touchpad (2).

The touchpad buttons (3) allow the selection and execution of commands. They correspond to the buttons on a conventional mouse. ! or Keep the touchpad clean, protect it from dirt, liquids, and grease.



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Do not use the touchpad if your fingers are dirty. Do not rest heavy objects (e.g. books) on the touchpad or the touchpad buttons. Moving the pointer Move your finger on the touchpad. Press down gently with your finger on the TouchStick. If you want to move the pointer to the left for example, press down gently on the left side of the TouchStick.

The pointer will move accordingly. 24 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Selecting an item Move the pointer to the item you wish to select. Tap the touchpad once or press the left button once. The item will be selected. Executing a command Move the pointer to the field you wish to select.

Tap the touchpad twice or press the left button twice. The command will be executed. Dragging an object or Lift your finger from the TouchStick. The item will be moved. Scrolling up Press the upper side of the touchpad scroll button to scroll up.

The information/texts above the display area appear. Scrolling down Press the lower side of the touchpad scroll button to scroll down. The information/texts below the display area appear. Move the pointer to the item you wish to select. Select the desired object and hold down on the left button. Drag the object to the desired position. Lift your finger from the touchpad. A26391-K144-Z120-1-7619, edition 2 25 Working with the notebook LCD screen Information on LCD monitor High-quality TFT displays are installed in notebooks from Fujitsu Siemens Computers GmbH. The specification of the monitor resolution indicates how many pixels can be displayed. For example, "XGA" stands for 1024 x 768 pixels.

Each pixel consists of three so-called subpixels of the colours red, green and blue. As a result, an XGA monitor consists of $1024 \times 768 \times 3 = 2,359,296$ subpixels. The standard of production techniques today cannot guarantee an absolutely fault-free monitor. A few isolated constant lit or unlit pixels may be present. To ensure the highest possible quality, Fujitsu Siemens Computers uses only monitors that at least comply with the standard DIN ISO 13406-2 (Class II). TFT monitors are operated with background lighting. The luminosity of the background lighting can decrease during the period of use of the notebook. The brightness of your monitor can be set individually with the brightness control keys of the keyboard. Monitor settings Setting resolution (under Windows) You can change the screen resolution under Start - Settings - Control Panel - Display - Settings and then selecting from the Resolution field. Setting font size (under Windows) Under Start - Settings - Control Panel - Display - Settings you can choose between a larger and a smaller font in the Font size field. Setting the display brightness You can adjust the brightness of your LCD screen with the keys Fn + F6 or Fn + F7 : With Fn + F6 , screen brightness will be reduced and with Fn + F7 increased. Synchronising the display on the LCD screen and an external monitor Your notebook supports the simultaneous display on the LCD screen and an external monitor. If the picture does not appear correctly on the LCD monitor, press the key combination Fn + F10 several times, or switch the external monitor off and then on again. This achieves good picture synchronisation. Adjusting the speed of the mouse pointer You can change the speed of the mouse pointer under Start - Settings - Control Panel - Mouse and clicking on the Motion tab.

26 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Battery The battery supplies your notebook with the necessary power during mobile use.

You can increase battery life by enabling the system's power management features. The battery charge is indicated by the battery symbol in the status indicator panel (see also section "Indicators") When you switch on the notebook, it takes a few seconds before the battery status is displayed. The standard battery will last for roughly 500 charge/discharge cycles, this will vary according to which battery pack is fitted. Charging, caring for and maintaining the battery ! Only use batteries released for your notebook.

Take care not to drop the batteries or otherwise damage their casing (fire risk). If the rechargeable batteries are defective, they must not be used. Do not touch the contacts of the batteries. Never interconnect the positive and negative terminals of a battery. Used batteries must be disposed of in accordance with local regulations (special waste). Observe the information on battery storage in the "Important notes" chapter. Information on the battery charging time is contained in the "Technical data" chapter. You can charge the battery by connecting the notebook to the power adapter. The battery can only be charged when the ambient temperature is between 5°C and max. 40°C.

Work in the battery mode until an acoustic warning or a message on the screen prompts you to recharge and the battery indicator in the status indicator panel begins to flash. The battery should not be charged before this point. If you do not connect the power adapter within five minutes of the signals described above, your notebook will automatically switch to the energy-saving mode or off. Storing the battery Store the battery in a fully charged state. Keep the battery pack between 0°C and +30°C (32 and 122 degrees Fahrenheit). The lower the temperature at which the batteries are stored, the lower is the rate of self-discharge. If storing for a long period of time (longer than two months) batteries should be fully charged before storage. To be able to make use of the optimal charging capacity of the batteries, the battery should be completely discharged and then fully recharged. i If you do not use the batteries for long periods, remove them from the notebook. Never store the batteries in the unit.

A26391-K144-Z120-1-7619, edition 2 27 Working with the notebook Monitoring the battery charging level The battery charge is indicated by the battery symbol in the status indicator panel (see the section "Indicators"). Power management includes a "battery charge meter" located in the task bar. When you place the mouse pointer on the battery symbol, the system displays the battery status. Removing and installing the battery ! Only use batteries released for this notebook. Never use force when inserting or removing a battery.

Make sure that foreign objects do not fall into the battery compartment. Switch the notebook off. Place the notebook on a flat surface. Close the LCD screen. Turn the notebook over.

Removing battery 1 2 3 Press the release (1) in the direction of the arrow and hold it pressed. Push the battery lock in the direction of the arrow up to the stop (2). Remove the battery from the battery compartment (3). 28 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Inserting battery 1 2 Position the battery at the edge of the casing.



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Push the battery into the battery slot until you feel it locking into place (1). Push the battery lock in the direction of the arrow up to the stop (2). Hard disk The hard disk is the most important storage medium of your notebook. You can work considerably faster and more efficiently if you copy applications and files from CDs to your hard disk. When the hard disk is accessed, the hard disk indicator lights up in the status indicator panel. A26391-K144-Z120-1-7619, edition 2 29 Working with the notebook Module The design of your notebook enables the flexible use of notebook batteries and drives.

The following modules can be operated in the module slot of your notebook: Hard disk drive DVD-ROM drive Combo drive (CD-RW/DVD) DVD+RW drive Second battery Weight Saver ! i Only use modules designed for your notebook. Do not use force when installing or removing the module. Make sure that no foreign objects enter the module bay. You can replace modules during operation. This means you do not need to switch off the notebook. To replace a module, simply click on the corresponding icon in the taskbar and then on Exit or Select - Exit. Then you can simply remove the module. 30

A26391-K144-Z120-1-7619, edition 2 Working with the notebook Removing module Place the notebook on a flat surface. 1 2 Pull the eject lever (1) in the direction of the arrow up to the stop. Pull the module (2) out of the module bay.

The module now extends somewhat beyond the casing. A26391-K144-Z120-1-7619, edition 2 31 Working with the notebook Installing module Place the module into the module bay so that the contacts enter first. Push the module into the module bay until you feel it locking into place. 32 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Optical drive Depending on the version, your notebook is equipped with a DVD-ROM drive, a combination drive (CD-RW/DVD) or a DVD+RW drive. You can replace your optical drive with another drive, a battery or a "Weight Saver" (see "Module" section).

! This device contains a light-emitting diode, classified according to IEC 825-1:1993: LASER CLASS 1, and must not be opened. Handling CD/DVDs Observe the following when handling CD/DVDs: Avoid touching the surface of a CD/DVD. Handle CDs/DVDs only by their edges! Always store CDs/DVDs in their cases. Thus you avoid dust contamination, scratches, bending or other damage. Protect your CDs/DVDs from dust, mechanical vibration and direct sunlight! Avoid storing a CD/DVD in areas subject to high temperatures or humidity.

You may use both 8-cm and 12-cm CDs/DVDs in the combo drive. When using CDs/DVDs of poor quality vibrations and reading errors may occur. CD/DVD indicator The CD/DVD indicator flashes when a CD/DVD is inserted. The indicator goes out when the drive is ready for reading. The indicator lights up when the drive is being accessed. You may only remove the CD/DVD when the indicator is dark. i If the CD/DVD indicator does not go out after inserting a CD/DVD, but instead continues to flash, the drive cannot access the data carrier. Either the CD/DVD is damaged or dirty or you are using a data carrier that the drive cannot read. A26391-K144-Z120-1-7619, edition 2 33 Working with the notebook Inserting or removing a CD/DVD The notebook must be switched on. 1 2 Push the insert/eject button (1).

Pull the drive tray all the way out (2). Place the CD/DVD in the drive tray with the label facing upwards or remove an inserted CD/DVD. The drive tray will open. 34 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Push in the drive tray until you feel it lock into place. A26391-K144-Z120-1-7619, edition 2 35 Working with the notebook Manual removal (emergency removal) In the event of a power failure or damage to the drive it may be necessary to manually remove the CD/DVD. Switch the notebook off. a Press a pen or a piece of wire (e.g. a paperclip) firmly into the opening°(a). The drive tray is unlocked and opens.

You can now pull out the drive tray completely. 36 A26391-K144-Z120-1-7619, edition 2 Working with the notebook PC cards Two PC card slots (CardBus or PCMCIA) enable the notebook to operate two type I or type II PC cards or one type III PC card. ! Consult the documentation supplied by the PC card's manufacturer and follow the instructions provided. Never use force when inserting or removing a PC card. Make sure that foreign objects do not fall into the PC card slot.

Installing a PC card Insert the PC card, contacts first, into the slot guide. Gently push the PC card into the slot until you feel it click into place. i Consult the documentation supplied with the PC card for information on how to install the necessary device drivers. Also observe the corresponding information files (e.g.

*.TXT, *.DOC, *.WRI, *.HLP or *.PDF) on the driver CD and in the user manual of the operating system. You can push the PC card slot eject button into the notebook casing. Press the eject button until it snaps in. This prevents the PC card from being ejected accidentally. A26391-K144-Z120-1-7619, edition 2 37 Working with the notebook Removing a PC card 2 1 Press the eject button (1).

The PC card will project further out of the notebook's case. If the eject button is lowered, you must first cause the eject button to release from the notebook casing. Press the eject button until it snaps out. Pull the PC card (2) out of the slot. 38 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Loudspeakers 1 1 = built-in loudspeakers Two loudspeakers (1) are installed in your notebook. The internal loudspeakers switch off when you attach headphones or external loudspeakers to the audio jack. Integrated 56k modem The integrated 56k modem supports all data communication applications, such as: Modem operation: High-speed downloads at up to 56,000 bit/s (V.9x). Downward-compatible to V.34 modems.

Fax mode: Transmitting and receiving at up to 14,400 bit/s Simple country adaptation with programme The modem complies with the EU Directive 91/263/EEC (Telecommunications terminal equipment directive) and has been checked in agreement with the guideline TBR-21. A26391-K144-Z120-1-7619, edition 2 39 Working with the notebook The modem can be operated in the following countries: Multifrequency (MFC) dialling: Belgium, Denmark, Germany,

Finland, France, Greece, Great Britain, Holland, Ireland, Iceland, Italy, Luxembourg, Norway, Austria, Portugal, Sweden, Switzerland and Spain. Pulse dialling: Belgium, France, Holland and Italy. Also in: Poland, Slovenia, South Africa and Hungary. Connecting notebook modem to telephone connection 2 1 Connect the modem cable supplied to the country-specific telephone adapter if necessary.

Connect the modem cable to the modem port of the notebook (1).



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Connect the modem cable to your telephone wall socket (2). i If you attach your modem on a TAE-N-connector the phone respectively data cable is busy. The cable cannot be used for other communication devices at the same time. Pull the modem plug out of the TAE-N-power socket after the data transfer, because also with connected cable no other communication devices can be used.

40 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Wireless LAN/ Bluetooth Depending on the device variant, wireless LAN/ Bluetooth may be integrated in your notebook. The wireless LAN/ Bluetooth module is switched off in the delivered state. Switching wireless LAN/ Bluetooth module on and off OFF ON or Slide the ON/OFF switch into the "ON" position to activate the wireless LAN/ Bluetooth module. Slide the ON/OFF switch into the "OFF" position to deactivate the wireless LAN/ Bluetooth module. i Details are contained in the online help for your wireless LAN software and in the "Wireless LAN" manual. The "Wireless LAN" manual can be found on the "Drivers & Utilities" CD. A26391-K144-Z120-1-7619, edition 2 41 Working with the notebook Ad hoc mode A wireless LAN in the ad hoc mode, also called peer-to-peer mode, consists of a single closed cell. Ad hoc wireless networks result when a workgroup comes together with its systems and would like to interconnect these for data exchange. Any number of systems can be added to this type of network and can leave it again. So that several ad hoc wireless networks do not interfere with each other in radio traffic, there is a unique network name, the SSID (Service Set Identifier).

The SSID is used for addressing so that a data packet can always be assigned to a certain cell. If you want to join an existing cell, you require the network name (SSID), which you enter in the settings for the network card. The driver searches for a wireless network with this identifier during start-up. When the network card has found a wireless network, it connects to it and you can communicate with the systems in this wireless network. If two cells are very closed to each other, the channels of these networks should lie 4 to 5 channels apart to avoid malfunctions. Infrastructure mode In the infrastructure mode, a base station, referred to as an access point, exists in addition to the mobile stations. In the infrastructure mode the access point assumes the function of a "guard". In contrast to the adhoc mode, each system must log on to the AccessPoint before it is allowed to exchange data in the cell. Another task of the access point is the connection of the cells with a cable-connected Ethernet. As due to the logon requirement, the access point knows at all times exactly which stations are on the radio side, it can decide exactly which data must be sent to it and which don't.

This process is also referred to as bridging. The range of a wireless network can be increased with several AccessPoints. The AccessPoints have the same SSID for this purpose. When a system enters the wireless network, it searches among the reachable access points for the one with the strongest signal and logs on there. Two systems logged on to different AccessPoints communicate with each other in this way, even when they are not within direct radio reach.

If a system also continuously monitors the radio situation after the logon, it can detect how the signals from an access point become weaker and those of another become stronger, and can then log on to the stronger one without the user noticing. This procedure is referred to as roaming. Port Replicator The Port Replicator (also available as an accessory) is a docking device with which you can quickly connect your notebook to your peripheral devices. Among other things, the Port Replicator is equipped with the standard ports for serial data transmission, printer, monitor, audio, mouse and keyboard. i Additional information on the Port Replicator and on the various external devices that can be connected to it is contained in the in the chapter entitled "Connecting external devices".

42 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Connecting the notebook to the Port Replicator ! i It is not permissible to connect the notebook to the Port Replicator during operation. When the notebook is connected to the Port Replicator, you should not connect the power adapter to the notebook, but instead to the Port Replicator. When the notebook is connected to the Port Replicator, the audio connections on the notebook are deactivated: Line In socket, microphone jack and headphone port. Switch the notebook off. Unplug the power adapter from the mains outlet. Pull the power adapter cable out of the DC socket (DC IN) of the notebook. 1 2 4 a 3 Make sure that the hoop (a) is in the position illustrated. Align the docking connectors as shown (1). Press down on the notebook's rear corners so that it may lock into position. Connect the power adapter cable to the DC jack (DC IN) of the Port Replicator (2).

Connect the power cable to the power adapter (3). Plug the power cable into the mains outlet (4). i If the notebook is connected to a Port Replicator, the operating system creates an hardware profile for the "Docked" mode. In this profile, for example, the setting is saved as to which monitor was last used for output. This profile will be loaded, as soon as the notebook is connected to any desired Port Replicator. A26391-K144-Z120-1-7619, edition 2 43 Working with the notebook Switching on notebook via Port Replicator 2 1 Press the Suspend/Resume button (1) of the Port Replicator. The power-on indicator (2) of the Port Replicator lights up. ! After switch-on a self-test (POST, Power On Self Test) is automatically carried out. Never switch the notebook off during the self-test. Switching off notebook via Port Replicator Close all programmes and shut down your operating system (please see operating system manual). i If the notebook cannot be shut down properly, press the Suspend/Resume button of the Port Replicator for approx. four seconds. The notebook switches off. However, any data which have not been saved may be lost. 44 A26391-K144-Z120-1-7619, edition 2 Working with the notebook Disconnecting the notebook from the Port Replicator ! It is not permissible to disconnect the notebook from the Port Replicator during operation.

Switch the notebook off. Unplug the power adapter from the mains outlet. 1 2 Press the button (1). Lift off the notebook (2). A26391-K144-Z120-1-7619, edition 2 45 Security functions Your notebook enables you to protect your system and personal data in a number of ways against unauthorised access. By combining these options, you can achieve maximum protection for your system. In this chapter you will learn which security functions your notebook is equipped with, which advantages these functions offer you and how to configure and use them.



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! Please consider that in the case of improper use, you yourself will also be unable to access your system and your data. Please note therefore the following hints: Back up your data on external data carriers at regular intervals. Passwords must be assigned for some security functions. Please be sure to note these passwords, as otherwise you will no longer be able to access your system. We recommend that you make a note of the passwords and keep them in a safe place. If you lose both the user and the admin passwords, you must contact our help desk. The telephone numbers are contained in the supplied help desk list. The loss of passwords is not a warranty case and is therefore subject to charge.

Overview of all security functions The following sections contain a brief description of the security functions that are provided with your notebook as standard equipment. Kensington Lock With the Kensington MicroSaver, a sturdy steel cable, you can protect your notebook and your Port Replicator from theft. Therefore, your notebook and your Port Replicator are equipped with a device for the Kensington MicroSaver. The Kensington MicroSaver is available as an accessory. Security panel The security panel enables you to protect your notebook from unauthorised use with a password. When a Security Panel password is activated, the notebook will not start without the correct insertion of a password. @@@@The password is requested from all suspend and resume modes. @@@@It contains a SmartCard and a SmartCard holder. @@@@You can purchase additional SmartCards as accessories. @@@@You can also read out other cards with your SmartCard reader (e.

g. cell phone cards, health insurance cards, bank cards). @@@@The "Mobile Secure IT Suite" contains several adapters for your cell phone cards. You will find the trial version of a program with which you can conveniently manage your cell phone data and messages on your notebook on the "Security Drivers & Tools" CD. 48 A26391-K144-Z120-1-7619, edition 2 Security functions Brief overview of the security functions Security function Kensington Lock Security panel Type of protection Mechanical Hardware password protection with Supervisor and User password.

The passwords are numeric combinations. More than 750,000 combinations are possible. @@@@The passwords consist of a maximum of eight alphanumeric characters. @@@@Insert SmartCard holder (accessory). Install the corresponding software, e.

g. Smarty (accessory). @@@@In this case you must call our Help Desk. @@@@ or Enter the programme name FJSECS.EXE under Start - Run. Click on OK. @@@@The programme starts. The programme instructions will help you configure the password. @@@@ Click one to four keys in the first line.

@@@Here it is important that you do not skip a line. @@@@ or Enter the programme name FJSECU.EXE under Start - Run. Click on OK. @@@@The programme starts. The programme starts. The programme instructions will help you configure the password. Enter the user password with its numbers and number combinations in the same way as the supervisor password. Using Security Panel Entering security password in the display field indicates that Security Panel is During the next reboot a key symbol activated. Your notebook does not start up until you have correctly entered your selected user password.

For the example in the section "Assigning the supervisor password" (2/3 4 1/3/4 2 1/2/3/4), the following steps are necessary: Simultaneously press the security keys 2 and 3. Press the security button 4. Simultaneously press the security keys 1, 3 and 4. Press the security button 2. Simultaneously press the security keys 1, 2, 3 and 4.

Then press the Enter key to complete the entry. Your notebook boots. i The Security Panel is never activated with the functions Wake on Ring, Wake on LAN and Time Resume. This means the notebook boots without password entry with the functions named. A26391-K144-Z120-1-7619, edition 2 53 Security functions Password error alarm If the password is entered incorrectly three times, a one-minute alarm is triggered.

If the correct password is still entered during the alarm, the notebook boots as usual. After one minute the notebook stops the alarm. The user must press the Suspend/Resume key. The key symbol appears in the display field - the user must now enter the correct user password. Upon correct entry the notebook boots.

Changing or removing security password After you have installed the programs FJSECS.EXE and FJSECU.EXE, you will find the entry Security control under Start - Programs. Here you can change or completely remove your user password. In this case follow the instructions of the programme.

Configuring password protection in BIOS Setup ! Before using the various options of password protection for your data security in the BIOS Setup, please note the following hints: Please keep in mind your passwords in any case, as you will not be able to access your BIOS Setup and/or your system any longer, if you forget both the user password and the supervisor password. The loss of passwords is not a warranty case and is therefore subject to charge. Back up your data on external data carriers at regular intervals. i Passwords can be up to eight characters long. You can use all alphanumeric characters and need not distinguish between uppercase and lowercase characters. Password protection for BIOS Setup (supervisor and user password) We recommend that you print out the following instructions, as these cannot be displayed while setting the password. You prevent unauthorised opening of the BIOS Setup with both the supervisor and the user password. With the supervisor password you have access to all functions of the BIOS Setup, and with the user password only to part of the functions. You can only set a user password if a supervisor password has already been assigned. i Please refer to section "Settings in BIOS Setup" for a description of calling and operating the BIOS Setup.

54 A26391-K144-Z120-1-7619, edition 2 Security functions Set the supervisor and user password Call BIOS Setup and select the Security menu. Mark the Set Supervisor Password field and press the Enter key. Enter the password and press the Enter key. Enter the password again and press the Enter key. With Enter new Password: you are then requested to enter a password.

With Confirm new Password you are asked to confirm the password. With Notice: Changes have been saved you receive a confirmation that the new password has been saved. To assign the user password, mark the field Set User Password and proceed exactly as when configuring the supervisor password.

@@@ The notebook is rebooted and the new password is effective. If you now want to open the BIOS Setup, you must first enter your supervisor or user password.

@@@@@@@Press the Enter key twice. @@@@Mark the Password on Boot field and press the Enter key. Select the Every Boot entry and press the Enter key.



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@@@Mark the Password on Boot field and press the Enter key. Select Disabled and press the Enter key. @@@The condition for this is that you have assigned at least the supervisor password. Activating hard disk protection Call BIOS Setup and select the Security menu. @@Mark the Hard Disk Security field and press the Enter key. Mark the Set Primary Master Password field and press the Enter key. Enter the password and press the Enter key.

Enter the password again and press the Enter key. With Enter new Password: you are then requested to enter a password. With Confirm new Password you are asked to confirm the password. With Notice: Changes have been saved you receive a confirmation that the new password has been saved. If you want to assign the password for the second hard disk, mark the field Set Secondary Master Password and proceed exactly as when configuring the password for the first hard disk. The field Password Entry on Boot is set to Enabled in the default setting. If you do not want to make any other settings, you can exit BIOS Setup. Select the Exit Saving Changes option in the Exit menu. The notebook reboots and your hard disk is now protected with a password. The password request becomes active as soon as the hard disk is installed in another computer and the computer is started.

Deactivating hard disk protection To cancel a password (without setting a new password) run the following steps: Call BIOS Setup and select the Security menu. Mark the Hard Disk Security field and press the Enter key. Mark the Set Primary Master Password field and press the Enter key. Press the Enter key twice. @@With the password for the first hard disk you simultaneously deactivate the password for the second hard disk.

Select the Exit Saving Changes option in the Exit menu. The notebook reboots and there is no longer any password protection for the hard disk.

A26391-K144-Z120-1-7619, edition 2 57 Security functions Configuring and using SmartCard reader 1 2 1 = PC card slot with SmartCard Interface 2 = SmartCard holder 1 + 2 = SmartCard reader To use the SmartCard reader, you must install a SmartCard holder in your notebook. The SmartCard holder is contained in the "Mobile Secure IT Suite", which is available as an accessory. 58 A26391-K144-Z120-1-7619, edition 2 Security functions Configuring SmartCard reader ! Do not use force when installing and removing the SmartCard holder.

Make sure that foreign objects do not fall into the SmartCard holder. Insert the SmartCard holder in the lower slot guide with the connection contacts first. Carefully slide the SmartCard holder into the slot with the sticker facing upward until it audibly engages. i You can lower the eject button into the notebook casing. Press the eject button until it snaps in. This prevents the SmartCard holder from being ejected accidentally. A26391-K144-Z120-1-7619, edition 2 59 Security functions Installing drivers Windows will detect the installed SmartCard holder as new hardware and will search for the chip driver. The driver is provided on the "Security Drivers & Tools" CD, which is also included with the "Mobile Secure IT Suite". Follow the instructions that appear on the screen after inserting the CD. The SmartCard reader is now configured.

i To remove the SmartCard holder, proceed exactly as for a PC card (see "Working with the notebook" chapter, "Removing a PC card" section). SmartCards SmartCards are not supplied as standard equipment. You can use all SmartCards that comply with the ISO standard 7816-1, -2 or -3. These SmartCards are available from various manufacturers. With the appropriate software you can use your SmartCard as an alternative to password protection, but also as a digital signature, for encrypting your e-mails or for homebanking. We recommend that you always use two SmartCards. Always keep one of the SmartCards in a safe place if you carry the other SmartCard with you. i The SmartCard can only be used with a PIN so protection is maintained even when the SmartCard is lost. The SICRYPT SmartCard, that is included in the "Mobile Secure IT Suite", is locked after an incorrect PIN is input three times, to ensure maximum security for you. The first time you use your SmartCard you must enter the preset PIN provided by the SmartCard manufacturer or your system administrator. 60 A26391-K144-Z120-1-7619, edition 2 Security functions Inserting the SmartCard ! Do not use force when inserting and removing the SmartCard. Make sure that foreign objects do not fall into the SmartCard holder. Slide the SmartCard into the SmartCard reader with the chip facing upward and at the front.

When the SmartCard is properly inserted, it protrudes by approximately 1.5 cm.

A26391-K144-Z120-1-7619, edition 2 61 Security functions Application examples SmartCard as device protection After you insert the SmartCard, you are prompted in the logon screen to enter your PIN. Upon correct entry the SmartCard is checked and the operating system is booted. The SmartCard remains in the SmartCard reader during the entire work session. In the Smarty software you can specify how the user is to log on to the operating system: only with SmartCard and PIN either with SmartCard and PIN or with password entry i To install, configure and use Smarty, please see the documentation and online help on the CD for the Smarty software. SmartCard for protecting your opened documents In conjunction with software such as Smarty (accessory), the SmartCard allows you to interrupt your work.

So you can leave your notebook unattended without unauthorised persons being able to access your opened documents and data. Pull the SmartCard out of the notebook during your work session. When you want to continue your work, insert the SmartCard and enter your PIN. A window appears stating that the system is locked. You return to your opened documents. Using SmartCard reader with your cell phone card Your "Mobile Secure IT Suite" contains black plastic adapters into which you can slide your GSM card. Insert the adapter in the SmartCard reader with the GSM card first. Install the SIMEdit! software from the "Security Drivers & Tools" CD. Now you can comfortably manage both your data (telephone numbers, addresses) and your messages (SMS) from your notebook. 62 A26391-K144-Z120-1-7619, edition 2 Security functions SmartCard as system protection (SystemLock) With SystemLock, the notebook can only be started with an initialised SmartCard (SICRYPT or CardOS) and personal identification number (PIN).

SmartCard and PIN are already checked during system booting in the BIOS Setup, i.e. before the operating system is booted. To use SystemLock, the following conditions must be met: You must configure a SmartCard reader (see "Configuring and using SmartCard reader") section.



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