Professional Notebook

English

EasyGuide

LIFEBOOK S Series

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- your sales office

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LIFEBOOK S Series

EasyGuide

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Contents

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Innovative technology...

and ergonomic design make your LIFEBOOK S Series notebook a user-friendly and reliable notebook.

Your notebook is available in several different versions. Most of the sections in this manual apply to all models – any differences are indicated separately. Some of the illustrations and features in this manual may differ from your model and are for guidance only.

Your operating system (e.g. Microsoft Windows) has already been preinstalled and optimally configured so that you can be up and running from the moment you switch on your notebook for the first time.

Your notebook features the very latest technology so that you get the best performance from your computing experience. Depending on the model, the following components may be included:

- up to 4 GB of main memory (RAM)
- A module bay suitable for housing the following modules: a DVD Super Multi Drive, a second battery, or a blind insert (Weight Saver)
- an integral camera for snapshots and video chat
- USB ports, providing simple expansion options for webcams, game pads, printers and more
- A PC card slot for use with a type II PC card
- a memory card slot for quick transfer of digital photos, music and video clips onto your notebook
- a SIM card slot that can be used to operate a SIM card
- An on-board audio controller and two stereo loudspeakers for true audio enjoyment. It is also possible to connect a microphone and external speakers for even better performance.

For mouse control, the notebook has a touchpad. Briefly touching the touchpad twice is all that is required to open an application, for example.

With the user-friendly *BIOS Setup* you can control the hardware of your notebook and better protect your system against unauthorised access by using the powerful password features.

This Operating Manual tells you how to get your notebook up and running and how to operate it in daily use.

Further information on this notebook can be found in the following documentation:

- In the "Professional Notebook" Operating Manual
- In the "Safety" and "Warranty" manuals
- In the documentation for the operating system
- In information files (e.g. *.TXT, *.DOC, *.WRI, *.HLP, *.PDF)

You can find information on accessories for your Notebook at "www.fujitsu-siemens.com/accessories".

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Notational conventions

	Pay particular attention to text marked with this symbol. Failure to observe this warning will endanger your life, will damage the device or lead to loss of data. The warranty will be invalidated if you cause defects in the device through failure to take notice of this warning
	indicates important information that is required to use the device properly.
►	indicates an activity that must be performed in the order shown
↳	indicates a result
`This style`	flags data entered using the keyboard in a program dialog or command line, e.g. your password (**`Name123`**) or a command to launch a program (**`start.exe`**)
`This style`	refers to information displayed by a program on the screen, e.g.: `Installation is completed`
This style	is for • terms and texts in a software user interface, e.g.: Click*Save*. • names of programs or files, e.g. *Windows* or *setup.exe*.
"This style"	is for • cross-references to another section, e.g. "Safety information" • Cross-references to an external source, e.g. a web address: For more information, go to" www.fujitsu-siemens.com" • indicates names of CDs and DVDs as well as names and titles of other materials, e.g.: "CD/DVD Drivers & Utilities" or "Safety" manual
Abc	refers to a key on the keyboard, e.g.: F10
This style	flags concepts and text that are emphasised or highlighted, e.g.: **Do not switch off device**

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Important notes

Take note of the safety hints provided in the "Safety" manual, in the "Professional Notebook" operating manual and in this manual.

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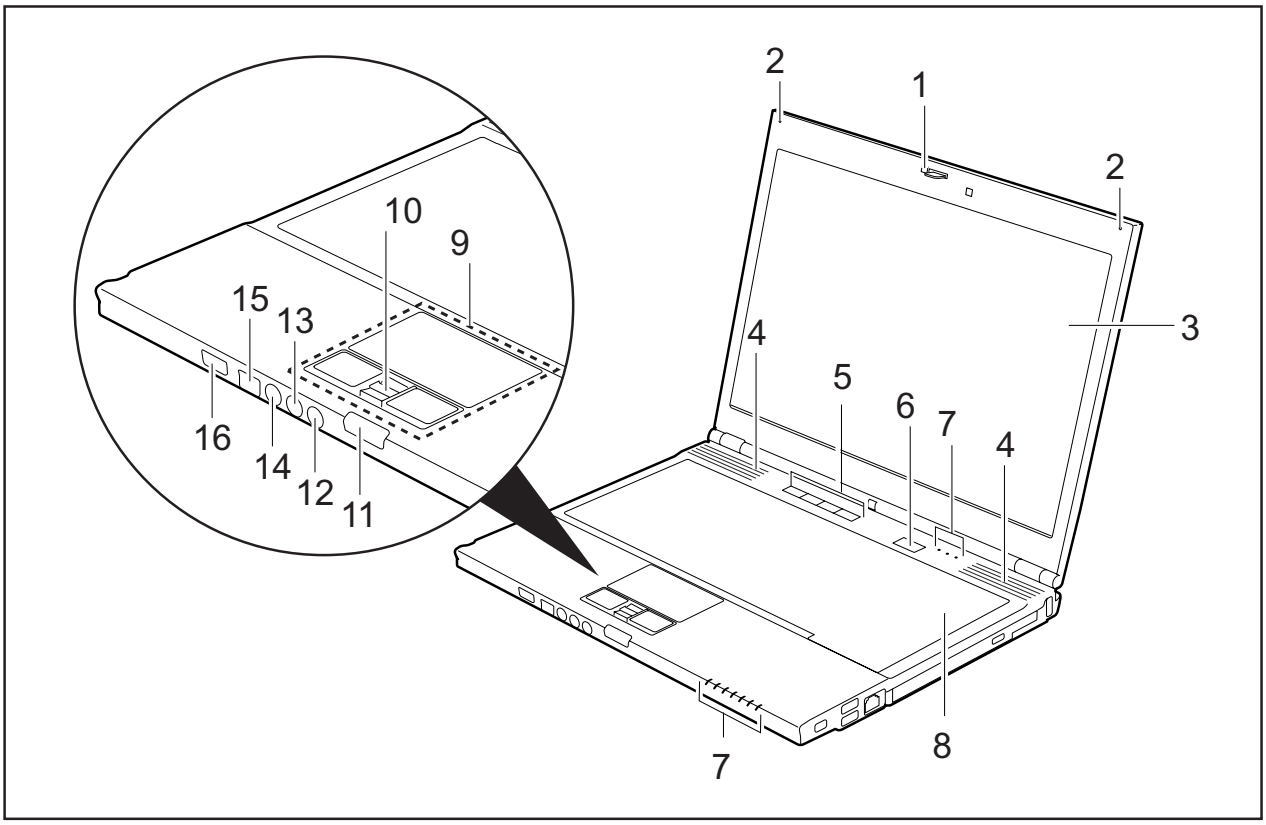
Ports and operating elements

This chapter presents the individual hardware components of your notebook. You can obtain an overview of the ports and operating elements of the notebook. Please familiarise yourself with these components before you start to work with your notebook.

Notebook open



1 = Camera (optional)
2 = Microphone
3 = LCD screen
4 = Loudspeaker
5 = Easy Launch keys
6 = ON/OFF switch
7 = Status indicators
8 = Keyboard
9 = Touchpad and touchpad buttons
10 = Fingerprint sensor
11 = Screen lock
12 = S-Video out socket
13 = Microphone port
14 = Loudspeaker port
15 = FireWire port
16 = ON/OFF switch for radio components

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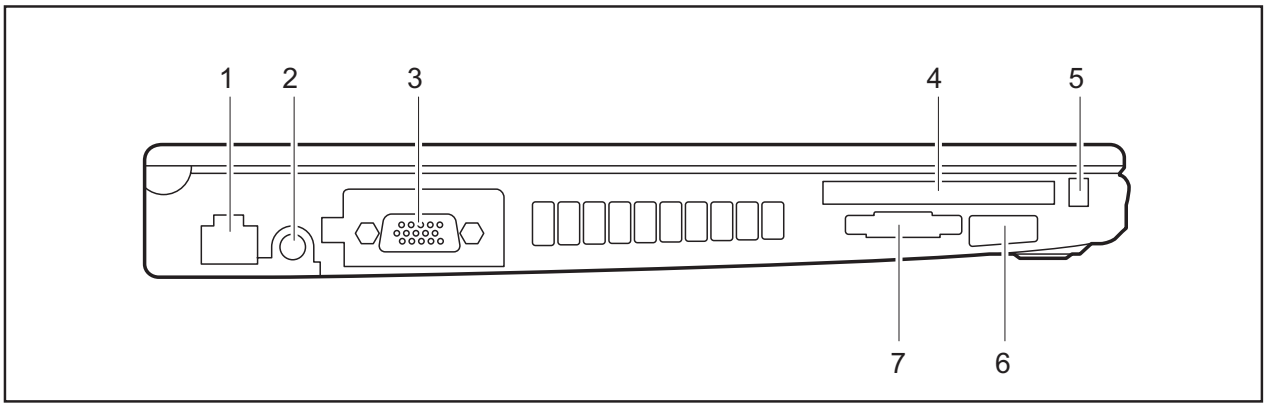
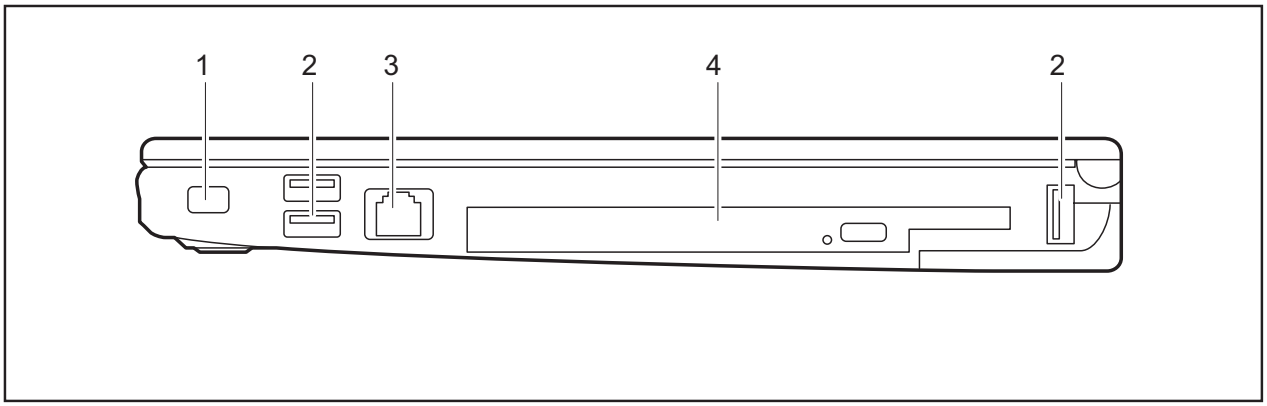
Left side



1 = LAN port
2 = DC input connector (DC IN)
3 = Monitor port
4 = PC card slot
5 = PC card eject button
6 = Infrared interface
7 = Memory card slot

Right side



1 = Kensington Lock
2 = USB ports
3 = Modem port
4 = Module bay with optical drive

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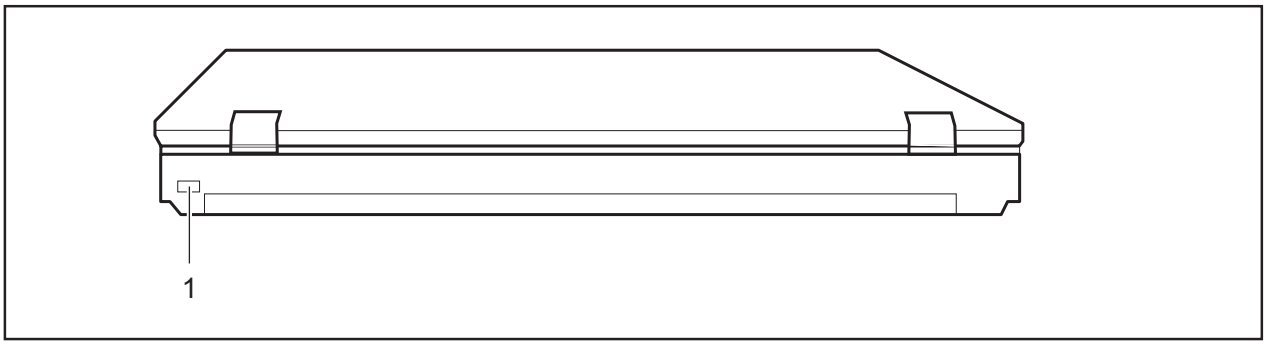
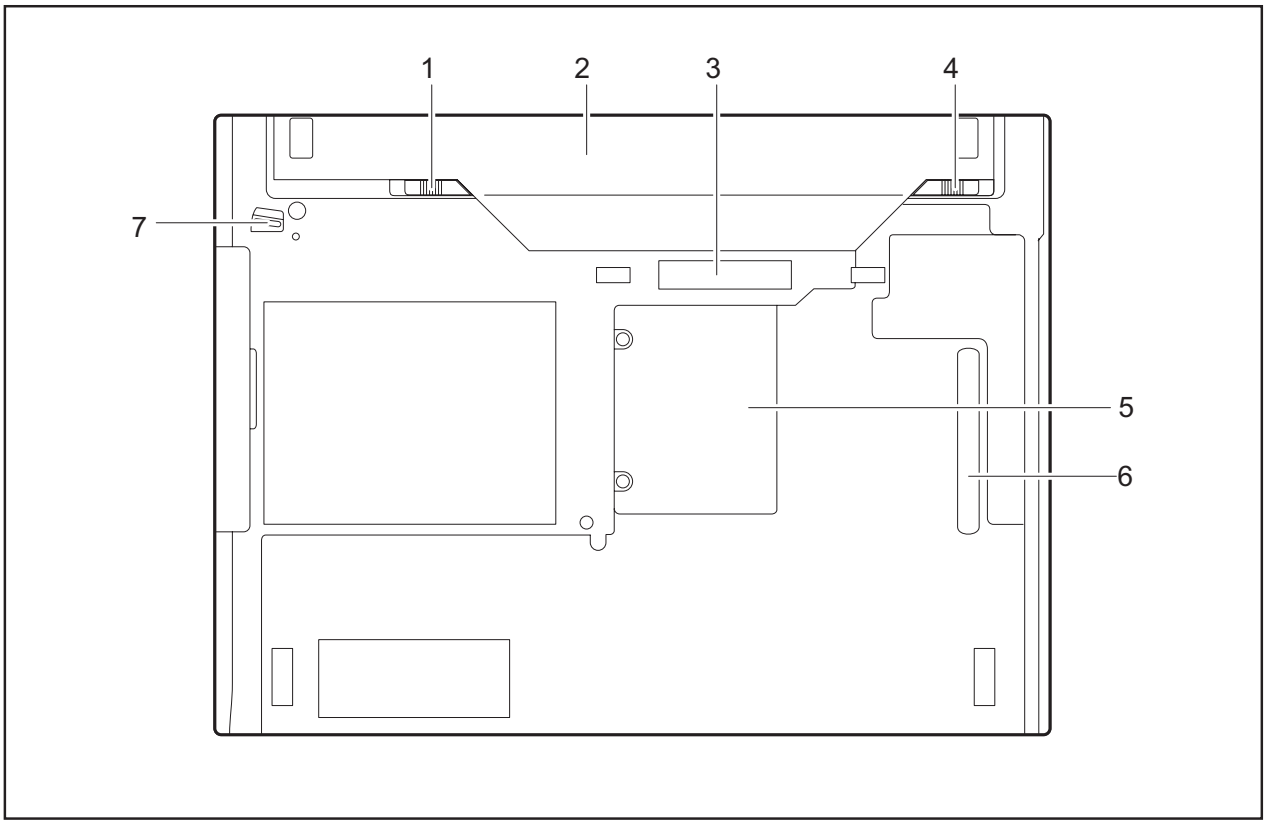
Rear



1 = Kensington Lock

Underside



1 = Battery release
2 = Battery
3 = Port for port replicator
4 = Battery release latch
5 = Cover for memory modules
6 = Air filter
7 = Release mechanism for module bay

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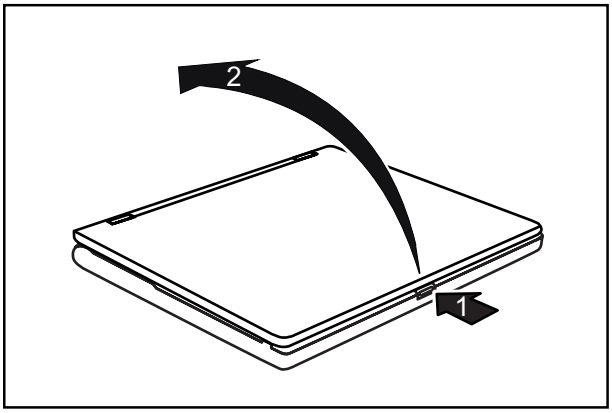
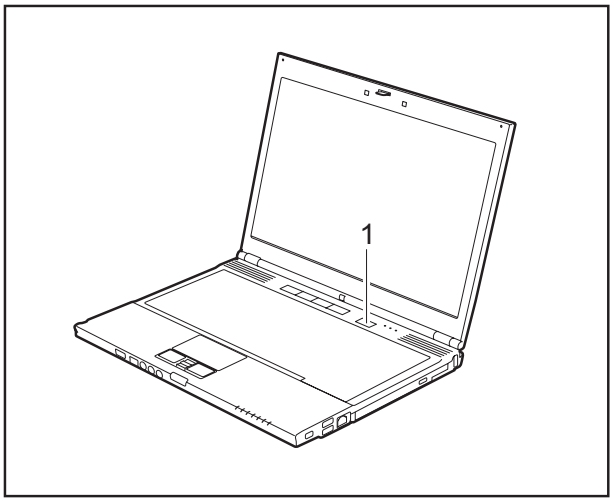
Switching on the notebook



► Press the release button (1) and open the LCD–display panel (2).



► Press the ON/OFF switch (1) to switch the notebook on.

↳ The power-on indicator is lit.

Windows XP:

You can configure the ON/OFF switch under *Start – (Settings) – Control Panel – Performance and Maintenance – Power Options – Advanced*.

Windows Vista:

You can configure the ON/OFF switch under *Start symbol – (Settings) – Control Panel – Mobile PC – Power Options*.

If you have assigned a password, you must enter this when requested to do so, in order to start the operating system password. You can find more information in the "Professional Notebook" operating instructions, "Security functions" section.

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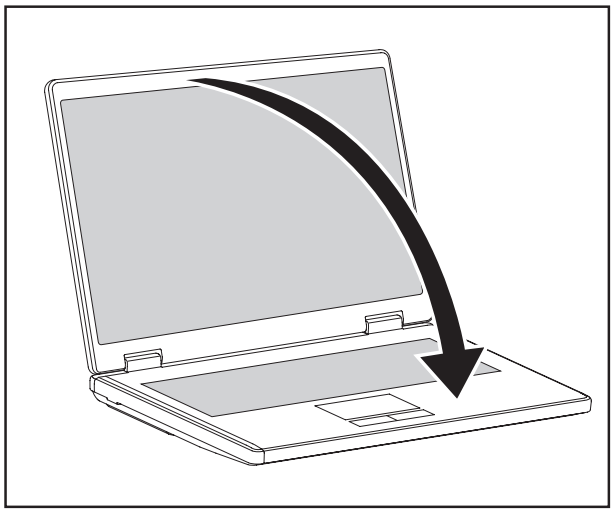
Switching off the Notebook

► Close all applications and shut down your operating system (please see operating system manual).

i

If the notebook cannot be shut down properly, press and hold the ON/OFF button for approximately four seconds. The notebook will switch off. Any unsaved data may be lost.



► Close the LCD screen.

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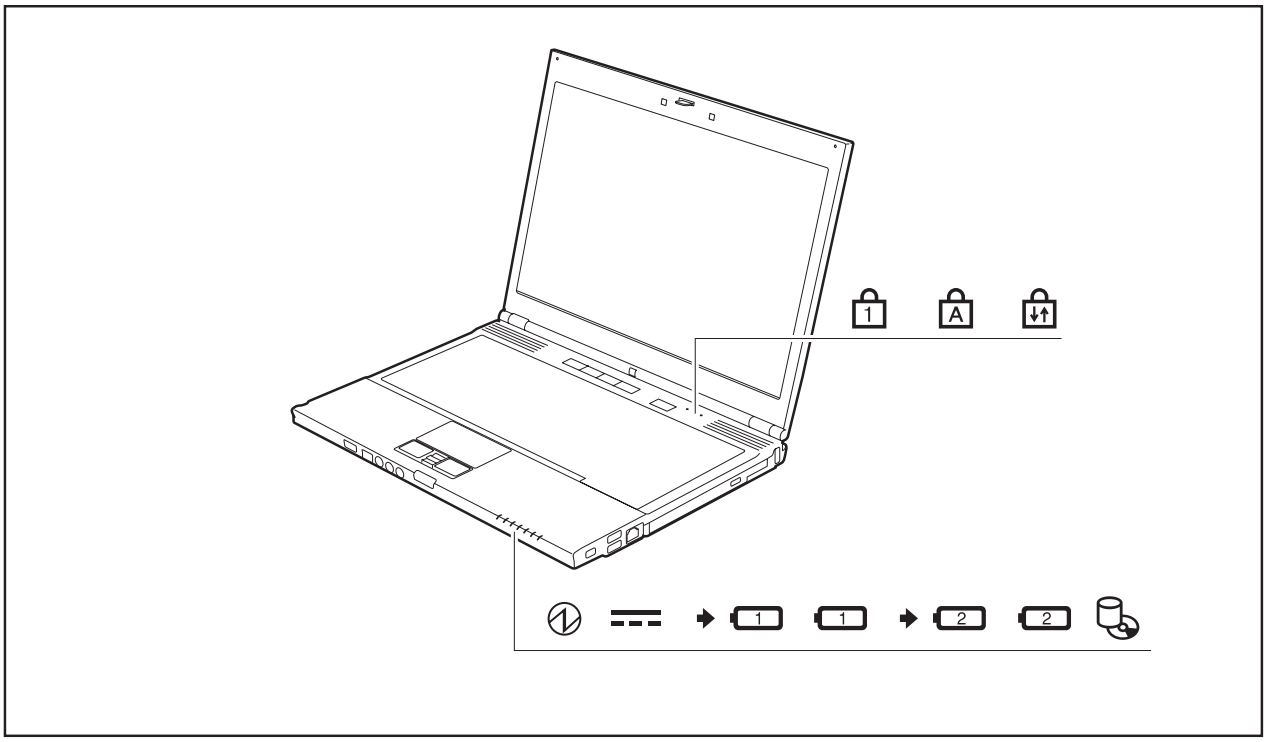
Status indicators

The status indicators 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)		Drive indicator
	First battery indicator		Num Lock indicator
	Battery charging indicator (second battery)		Caps Lock indicator
	Second battery indicator		Scroll Lock indicator

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The meanings of the symbols are as follows:

Power-on indicator

- Indicator continuously lit: the notebook is switched on.
- Indicator flashes: the notebook is in suspend mode
- The indicator is not lit: the notebook is switched off or in Save-to-Disk mode.

Power indicator

Indicator is illuminated: the mains adapter is supplying power to the notebook.

Drive indicator

Indicator lights up green: the hard disk drive or the CD/DVD in the optical drive of the notebook is being accessed.

Battery charging indicator (first battery)

- Indicator is illuminated (green): the mains adapter is connected and the first battery is fully charged, or the mains adapter is connected and the first battery is not installed.
- The indicator flashes yellow: the mains adapter is connected and the first battery cannot be charged (the battery is too hot for charging).
- The indicator is illuminated (yellow): the mains adapter is connected and the first battery is being charged.
- The indicator is not illuminated: the mains adapter is not connected.

First battery indicator

- Indicator lights up green: the mains adapter is connected and the first battery is being charged. The first battery is charged to between 50% and 100% of maximum capacity.
- The indicator slowly flashes green (1 second on/5 seconds off): the notebook is in suspend mode and power is being supplied by the first battery. The first battery is charged to between 50% and 100% of maximum capacity.
- The indicator lights up yellow: the mains adapter is connected and the first battery is being charged. The first battery is charged to between 13% and 49% of maximum capacity.
- The indicator slowly flashes yellow (1 second on/5 seconds off): the notebook is in suspend mode and power is being supplied by the first battery. The first battery is charged to between 13% and 49% of maximum capacity.
- The indicator lights up red: the mains adapter is connected and the first battery is being charged. The first battery is charged to between 0% and 12% of maximum capacity.
- The indicator flashes red (1 second on/1 second off): the first battery is faulty.
- The indicator slowly flashes red (1 second on/5 seconds off): the notebook is in suspend mode and power is being supplied by the first battery. The first battery is charged to between 0% and 12% of maximum capacity.
- The indicator is not lit: the first battery is not installed.

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Battery charging indicator (second battery)

- The indicator lights up yellow: the mains adapter is connected and the second battery is being charged.
- The indicator flashes yellow: the mains adapter is connected and the second battery cannot be charged (the battery is too hot for charging).
- The indicator is not lit: the mains adapter is connected and the second battery is fully charged, or the mains adapter is connected and the second battery is not installed, or the mains adapter is not connected.

Second battery indicator

- Indicator lights up green: the mains adapter is connected and the second battery is being charged. The second battery is charged to between 50% and 100% of maximum capacity.
- The indicator slowly flashes green (1 second on/5 seconds off): the notebook is in suspend mode and power is being supplied by the second battery. The second battery is charged to between 50% and 100% of maximum capacity.
- The indicator lights up yellow: the mains adapter is connected and the second battery is being charged. The second battery is charged to between 13% and 49% of maximum capacity.
- The indicator slowly flashes yellow (1 second on/5 seconds off): the notebook is in suspend mode and power is being supplied by the second battery. The second battery is charged to between 13% and 49% of maximum capacity.
- The indicator lights up red: the mains adapter is connected and the second battery is being charged. The second battery is charged to between 0% and 12% of maximum capacity.
- The indicator flashes red (1 second on/1 second off). The second battery is faulty.
- The indicator slowly flashes red (1 second on/5 seconds off): the notebook is in suspend mode and power is being supplied by the second battery. The second battery is charged to between 0% and 12% of maximum capacity.
- The indicator is not lit: the second battery is not installed.

Num Lock indicator

Indicator continuously lit: the Num Lk key has been pressed. The virtual numeric keypad is activated. You can output the characters indicated on the upper right of the keys.

Caps Lock indicator

Indicator continuously lit: the Caps Lock key has been pressed. All the characters you type will appear in upper case. In the case of overlay keys, the character printed on the upper left of the key will appear when that key is pressed.

Scroll Lock indicator

Indicator continuously lit: the key combination Fn + Scr Lk has been pressed. The effect that this key has varies between applications.

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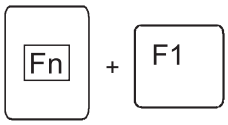
Key combinations

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.

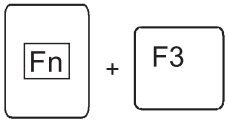
Key combinations are entered as follows:

- ► Press and hold the first key in the combination.
- ► While holding the first key down, press the other key or keys in the combination.

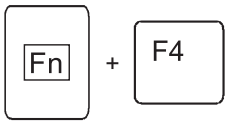
The key combination Ctrl + Alt Gr or Ctrl + Alt can be used on external keyboards that do not not feature a Fn key.



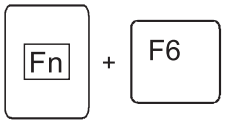
Sleep mode
This key combination is used to activate the suspend mode (S3).



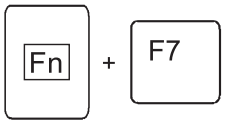
Enable/disable loudspeakers
This key combination switches your notebook's loudspeakers off and on.



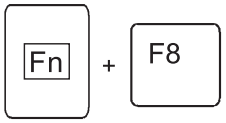
Switching the touchpad on/off
This key combination enables and disables the touchpad.



Decrease screen brightness
This key combination decreases the brightness of the screen.



Increase screen brightness
This key combination increases the brightness of the screen.



Decrease volume
This key combination reduces the volume of the integrated loudspeakers.

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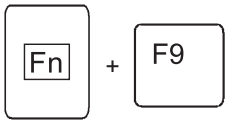
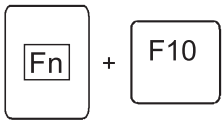


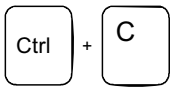
Volume increase
This key combination raises the volume of the integrated loudspeakers.



Toggle output screen
If an external monitor is connected, the monitor on which the output is to be displayed can be selected with this key combination.

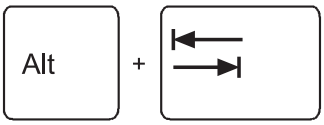
You can opt to use:

- just the notebook's LCD screen
- just the external monitor
- both the LCD screen and the external monitor

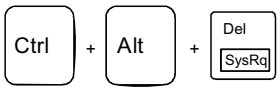


Halt current operation

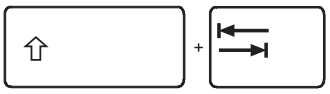
This key combination can be used to halt an operation instantly without clearing the keyboard buffer.



Switch between open applications
With this key combination you can switch between several open applications.



Perform warm boot
This key combination triggers a reset and reboots the notebook. First press and hold both the Ctrl and Alt key, then press the Del key. This will cause the Task Manager to be displayed. The key combination must be pressed a second time to reboot the system.



Back tab
This key combination moves the cursor back to the previous tabular stop.

Key combinations using the Windows keys are detailed in the manual for your operating system.

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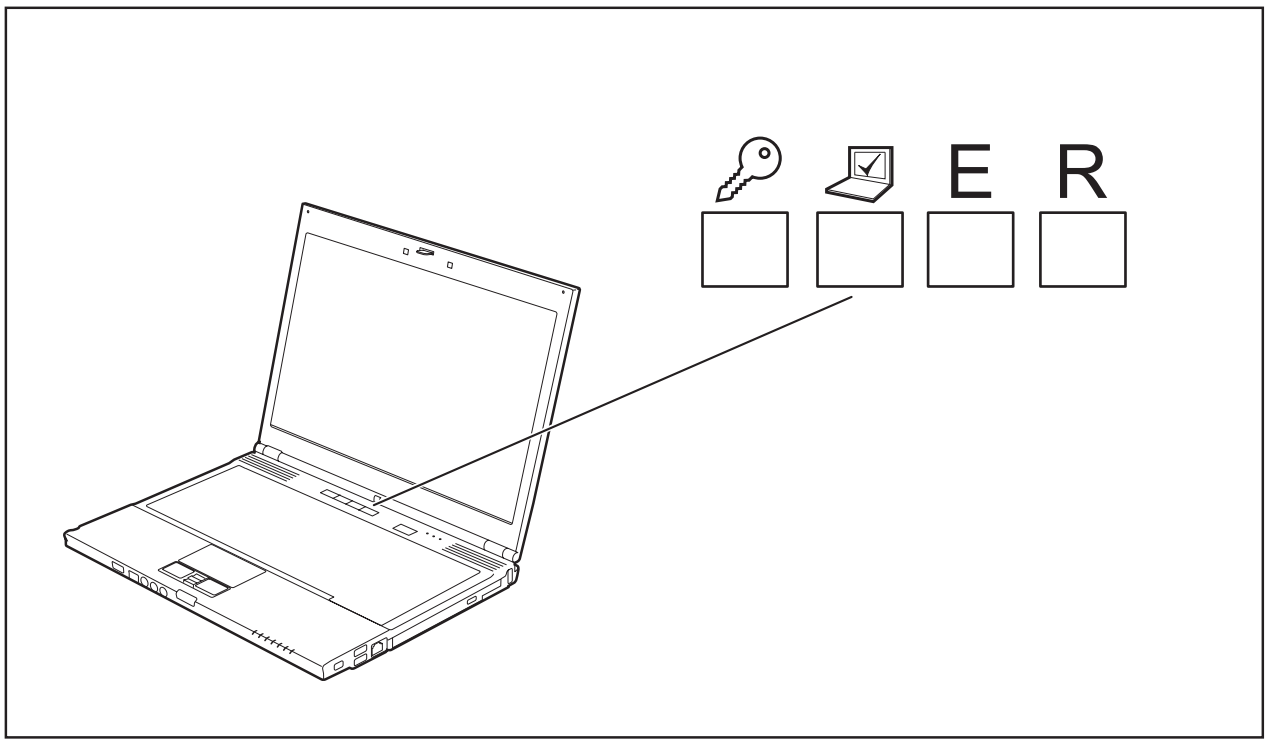
Easy Launch keys

Your notebook is equipped with four Easy Launch keys.



Lock Workstation key

This key allows you to lock your workstation. However, you can also configure this key as desired.

Mobility Center key

This button starts the Mobility Center. However, you can also configure this key as desired.

E key

The E key is a simple way of activating and deactivating power management functions (e.g. reduce screen brightness), see the "Professional Notebook" manual.

R key (recovery)

Pressing the R key opens a dialog window in which you can backup or restore data.

Configuring Easy Launch keys

The *Application Panel* allows you to assign various functions to the Easy Launch keys.

Windows XP:

You will find the *Application Panel* under *Start - (Settings) - Control Panel - Additional Control Panel Options - Application Panel.*

Windows Vista:

You will find the *Application Panel* under *Start symbol - Programs - Lifebook Application Panel*.

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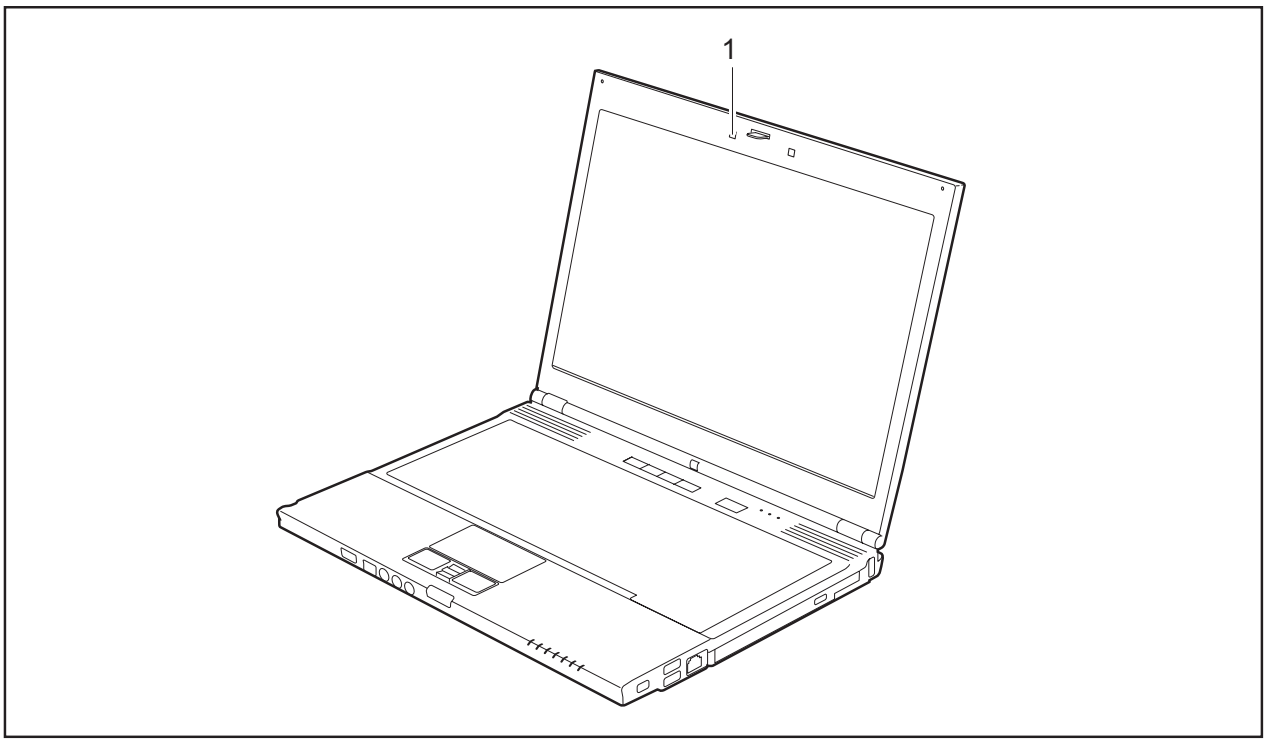
Camera (optional)

Your device is fitted with a VGA camera (1), which can also be used as a webcam.



Further information on the use of the camera can be found in the supplied software.

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Removing and installing the battery

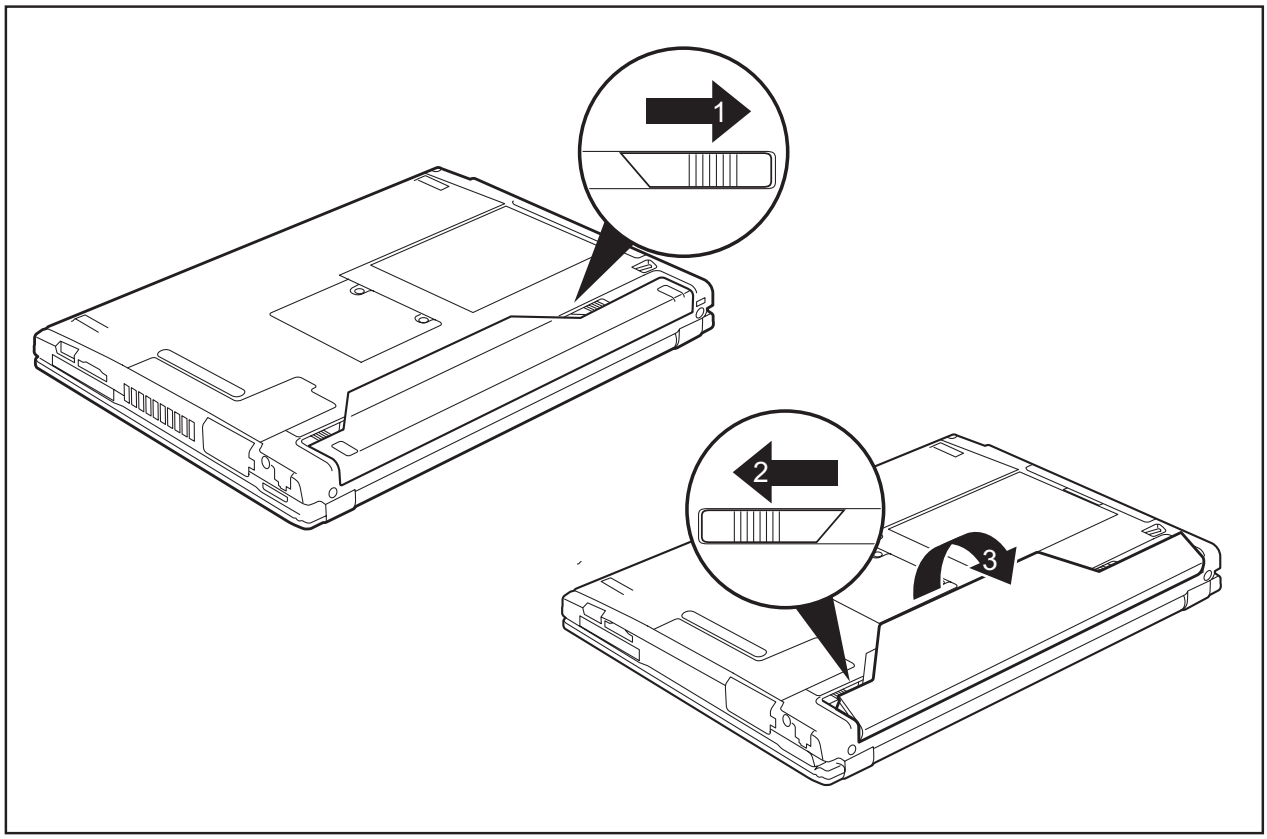
Only use batteries approved by Fujitsu Siemens Computers for your notebook.

Never use force when inserting or removing a battery.

Make sure that no foreign bodies get into the battery connections.

Removing the battery

- ► Switch the notebook off and pull the power plug out of the mains socket.
- ► Close the LCD screen so that it locks into place.
- ► Disconnect all cables connected to the notebook.
- ► Turn your notebook over and place it on a stable, flat and clean surface. If necessary, lay an anti-slip cloth on this surface to prevent the notebook from being scratched.



- ► Slide the release button in direction of the arrow (1).
- ► Slide the battery lock (2) in the direction of the arrow as far as possible and hold it in place.
- ► Remove the battery from the battery compartment (3).

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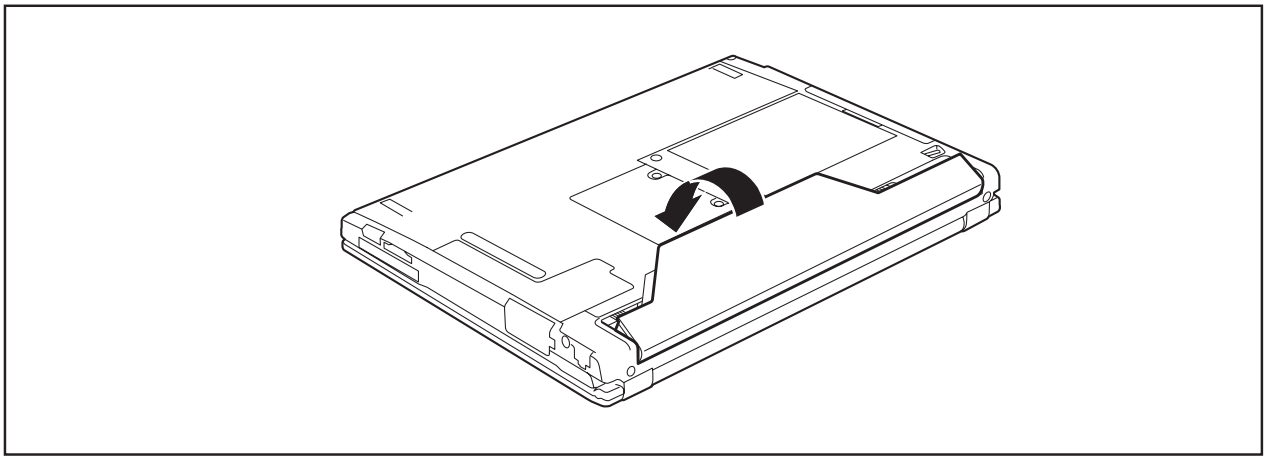
Installing battery



► Position the battery at the edge.
► Push the battery into the battery slot until you feel it lock into place (1).
► Slide the release button in direction of the arrow (2).

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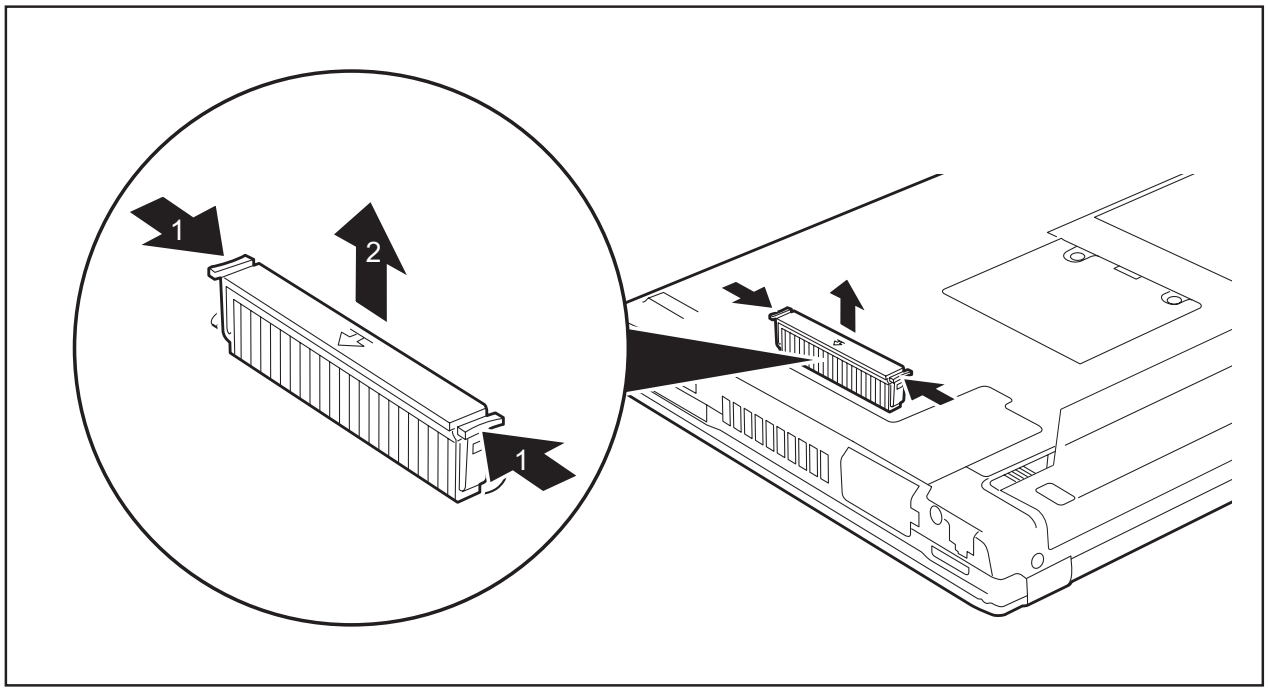
Removing and installing the air filter

Clean the existing air filter regularly. Dirty air filters will lead to an increased temperature inside the device. Operating temperatures which are too high can lead to loss of data and unreliable operation.

Air filter removal

- ► Switch off your notebook and disconnect the power plug from the mains.
- ► Close the LCD screen so that it locks into place.
- ► Disconnect all cables connected to the notebook.
- ► Turn your notebook over and place it on a stable, flat and clean surface. If necessary, lay a non-slip cloth on this surface to prevent the notebook from being scratched.



- ► Press and hold the locking tab on the air filter (1).
- ► Remove the air filter from its slot (2).
- ► Clean the air filter with a dry brush.

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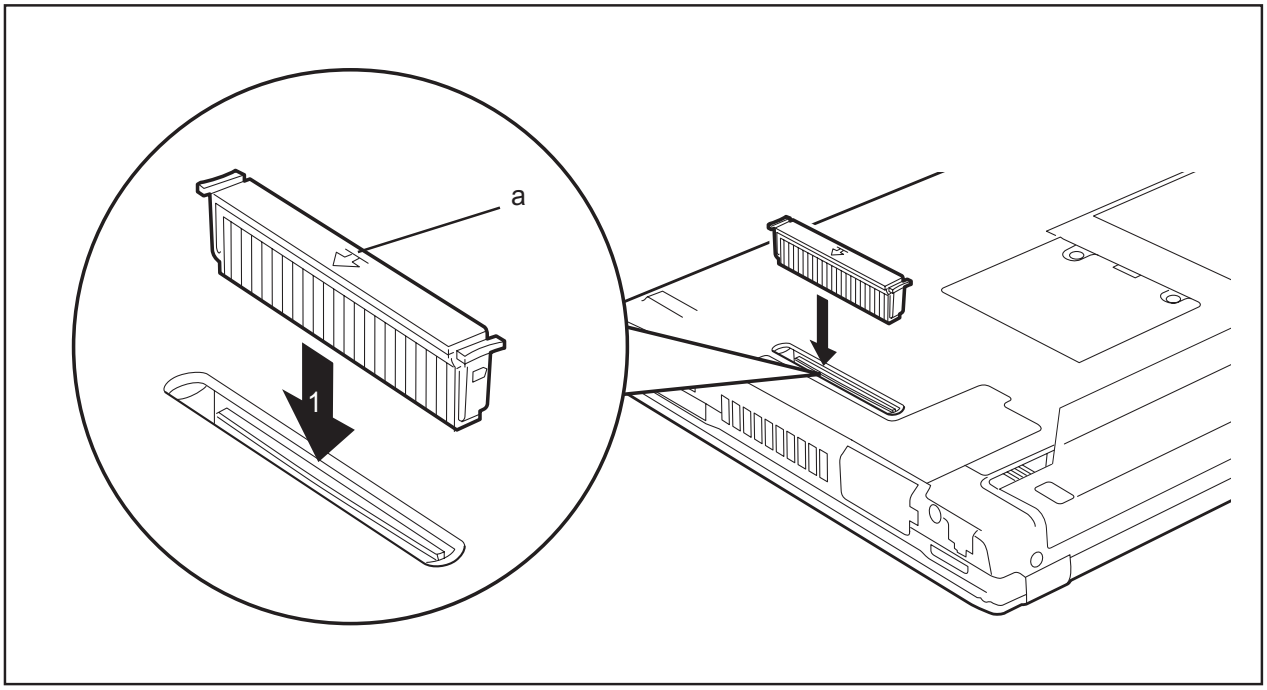
Install air filter

Make sure that the arrow (a) on the air filter points in the correct direction and that you reinsert the air filter with the same orientation that it had before the cleaning operation.



- ► Insert the air filter at and angle into the slot (1) and ensure that you feel it click into place.
- ► Turn the notebook the right way up and place it on a flat surface.
- ► Reconnect the cables that you disconnected previously.

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Module

The design of your notebook enables the flexible use of notebook batteries and drives. The following modules can be operated in the module bay of your notebook:

- DVD/CD-R/RW drive
- DVD Super Multi Drive
- Second battery
- Blind insert (Weight Saver)

Only use modules designed for your notebook.

Do not use force when installing or removing the module.

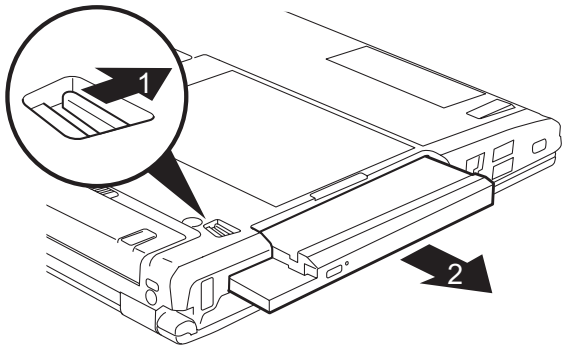
Make sure that no foreign objects enter the module bay.

You can swap 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 task bar and then on *Exit* or *Select - Exit*.

The module can now be removed without any further actions being necessary.

Removing a module



► Slide the release mechanism (1) in the direction of the arrow and hold.

► Now pull the module (2) out of the module bay.

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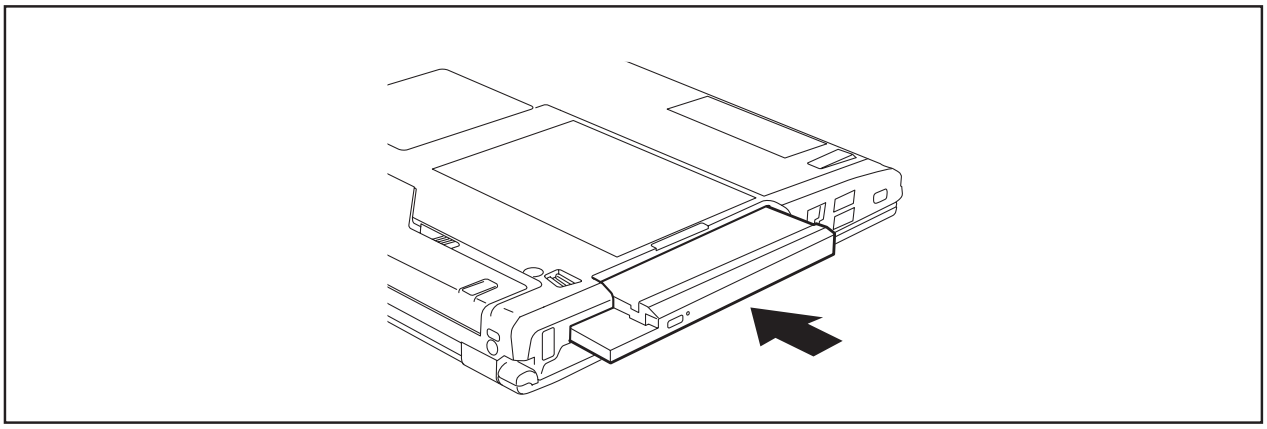
Installing a module



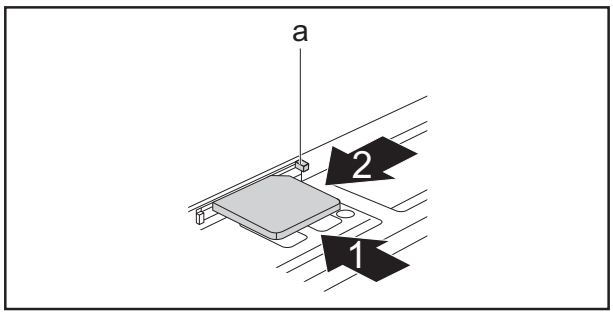
► Place the module into the module bay so that the contacts enter first.
► Push the module into the module bay until you feel it locking into place.

SIM card

Follow the instructions supplied by the provider of the SIM card.

Inserting the SIM card

► Switch the notebook off and pull the power plug out of the mains socket.
► Close the LCD screen so that it locks into place.
► Disconnect all cables connected to the notebook.
► Turn your notebook over and place it on a stable, flat and clean surface. If necessary, lay an anti-slip cloth on this surface to prevent the notebook from being scratched.
► Remove the battery (see Section "Removing the battery", Page 16).



► Slide the SIM card into the slot (1) (with the contacts facing upwards) until it engages.
► Slide the clip (a) of the SIM card in the direction of the arrow (2).

► Reinstall the battery (see "Installing battery", Page 17).
► Turn the notebook the right way up and place it on a flat surface.
► Reconnect the cables that you disconnected previously.

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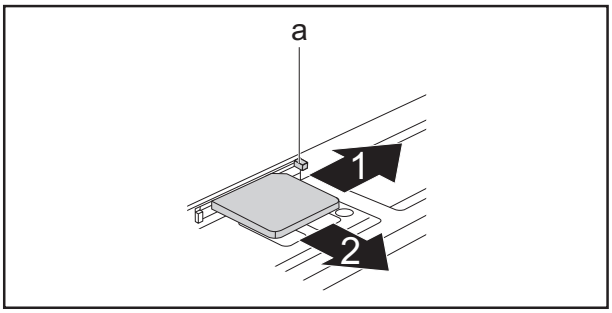
Removing a SIM card

- ► Switch the notebook off and pull the power plug out of the mains socket.
- ► Close the LCD screen so that it locks into place.
- ► Disconnect all cables connected to the notebook.
- ► Turn your notebook over and place it on a stable, flat and clean surface. If necessary, lay an anti-slip cloth on this surface to prevent the notebook from being scratched.
- ► Remove the battery (see Section "Removing the battery", Page 16).



- ► Slide the clip (a) of the SIM card in the direction of the arrow (1).
- ► Press on the edge of the SIM card so that it jumps up slightly out of the slot.
- ► Pull the SIM card out of the slot in the direction of the arrow (2).

- ► Reinstall the battery (see "Installing battery", Page 17).
- ► Turn the notebook the right way up and place it on a flat surface.
- ► Reconnect the cables that you disconnected previously.

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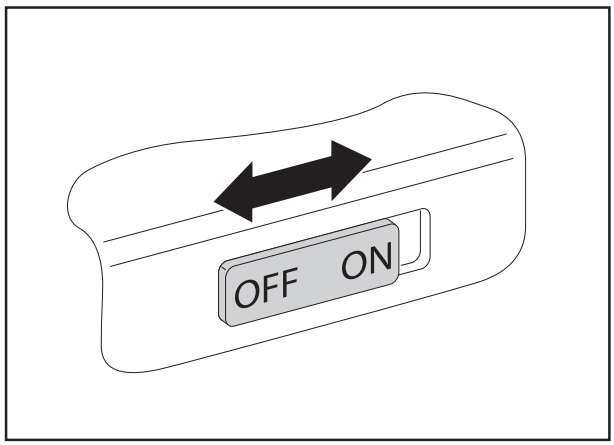
Radio components: UMTS (optional)/wireless LAN/Bluetooth

The installation of a wireless LAN, Bluetooth or UMTS module not approved by Fujitsu Siemens Computers GmbH voids the permits (CE!, FCC) issued for this device.

The modules for radio components are switched off during shipping.

Switching the radio components on and off



► Slide the ON/OFF switch into the "ON" position to activate the radio components.

or

► Slide the ON/OFF switch to the "OFF" position to deactivate the radio components.

The Bluetooth and UMTS modules and the wireless LAN transmission unit (antenna) will also be switched off when you switch off the radio components.

You can also deactivate the wireless components individually in the *BIOS Setup*. You must have assigned the supervisor password in order for this function to be available.

Pay attention to the additional safety notes for devices with radio components provided in the "Safety" manual.

Details on using Wireless LAN can be found the online help system included in the Wireless LAN software.

You can find more information on how to use Bluetooth on the CD you received with your Bluetooth software.

You can obtain more information on UMTS from your service provider.

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Removing and installing components during servicing

Only qualified technicians should repair your notebook. Unauthorised opening or incorrect repair may greatly endanger the user (electric shock, fire risk) and will invalidate your warranty.

You may remove and install the components described in this chapter yourself after consulting the Hotline/Help Desk.

If you remove and install components without consulting the Hotline/Help Desk, then the warranty of your notebook will be voided.

Notes on installing and removing boards and components

- Switch the notebook off and pull the power plug out of the mains socket.
- Remove the battery.
- Take care when you use the locking mechanisms on the battery and any other component.
- Never use sharp objects such as screwdrivers, scissors or knives as leverage to remove covers.

Boards with electrostatic sensitive devices (ESD) are marked with the label shown.

When handling boards fitted with ESDs, you must always observe the following points:

- You must always discharge static build up (e.g. by touching a grounded object) before working.
- The equipment and tools you use must be free of static charges.
- Remove the power plug from the mains supply before inserting or removing boards containing ESDs.
- Always hold boards with ESDs by their edges.
- Never touch pins or conductors on boards fitted with ESDs.

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Removing and installing memory modules

The notebook will not start without memory modules, as no fixed RAM is installed.

Your notebook supports dual-channel DDR2 technology.

The dual-channel DDR2 technology can only be used with two identical memory modules. When two different memory modules are installed, only "single-channel" mode is supported. This reduces the performance of your notebook.

With a memory configuration of 4 Gbytes, the visible and usable main memory may be reduced to 3 Gbytes (depending on notebook configuration).

If you are asked by the Hotline/Help Desk to remove and install the memory modules yourself, proceed as follows:

Pay attention to the relevant safety notes provided in the "Important notes" chapter.

The notebook must be switched off when installing/removing the memory modules, it must not be in Suspend mode.

Only use approved memory expansion modules in your notebook (see Section "Technical data", Page 28).

Never use force when installing or removing memory modules.

Make sure that foreign objects do not fall into the memory expansion compartment.

Individual components (e.g. the processor heat sink) can become very hot during operation. Therefore, we recommend that you wait one hour after switching off the notebook before removing or installing the memory modules. Otherwise, there is a risk of suffering burns!

As some non-ESD safe components are exposed, please observe the section "Notes on installing and removing boards and components", Page 24.

- ► Switch your notebook off and unplug the mains adapter from the mains outlet.
- ► Close the LCD screen so that it locks into place.
- ► Disconnect all cables connected to the notebook.
- ► Turn your notebook over and place it on a stable, flat and clean surface. If necessary, lay an anti-slip cloth on this surface to prevent the notebook from being scratched.
- ► Remove the battery (see "Removing the battery", Page 16).

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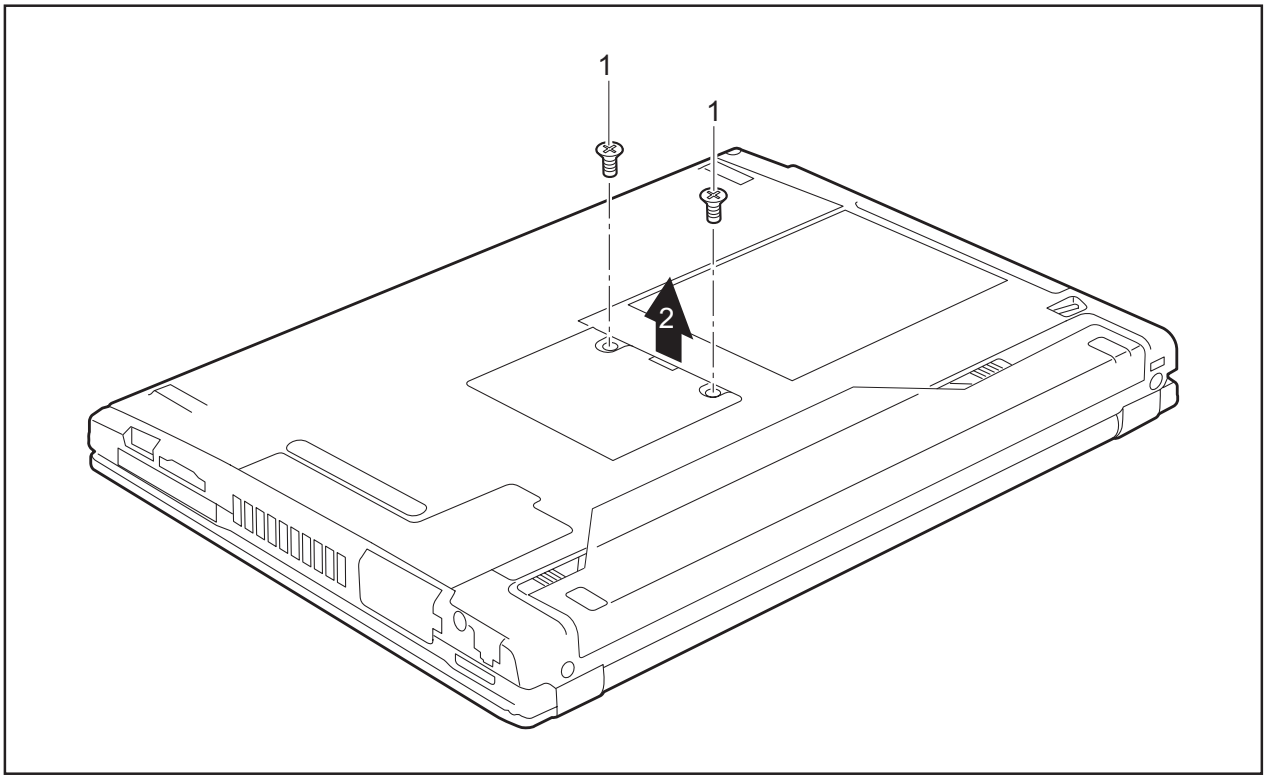
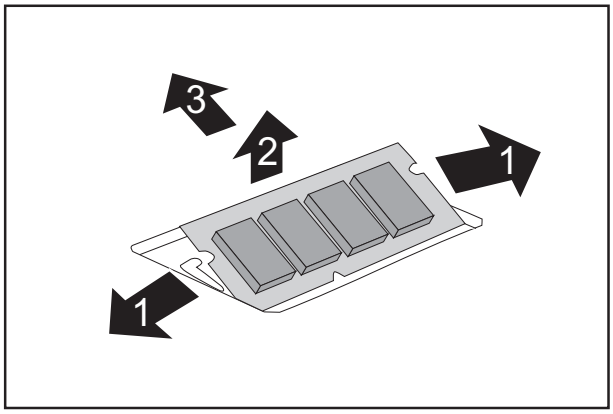
Removing cover



► Remove the screws (1).
► Pull the cover off the notebook (2).

Removing memory modules



► Carefully push the two mounting clips outwards (1).
↳ The memory module snaps upwards (2).
► Pull the memory module out of its slot in the direction of the arrow (3).

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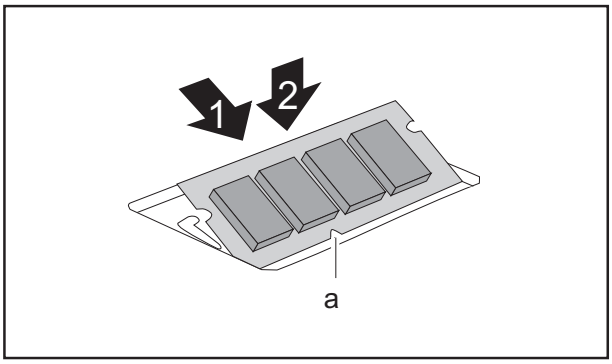
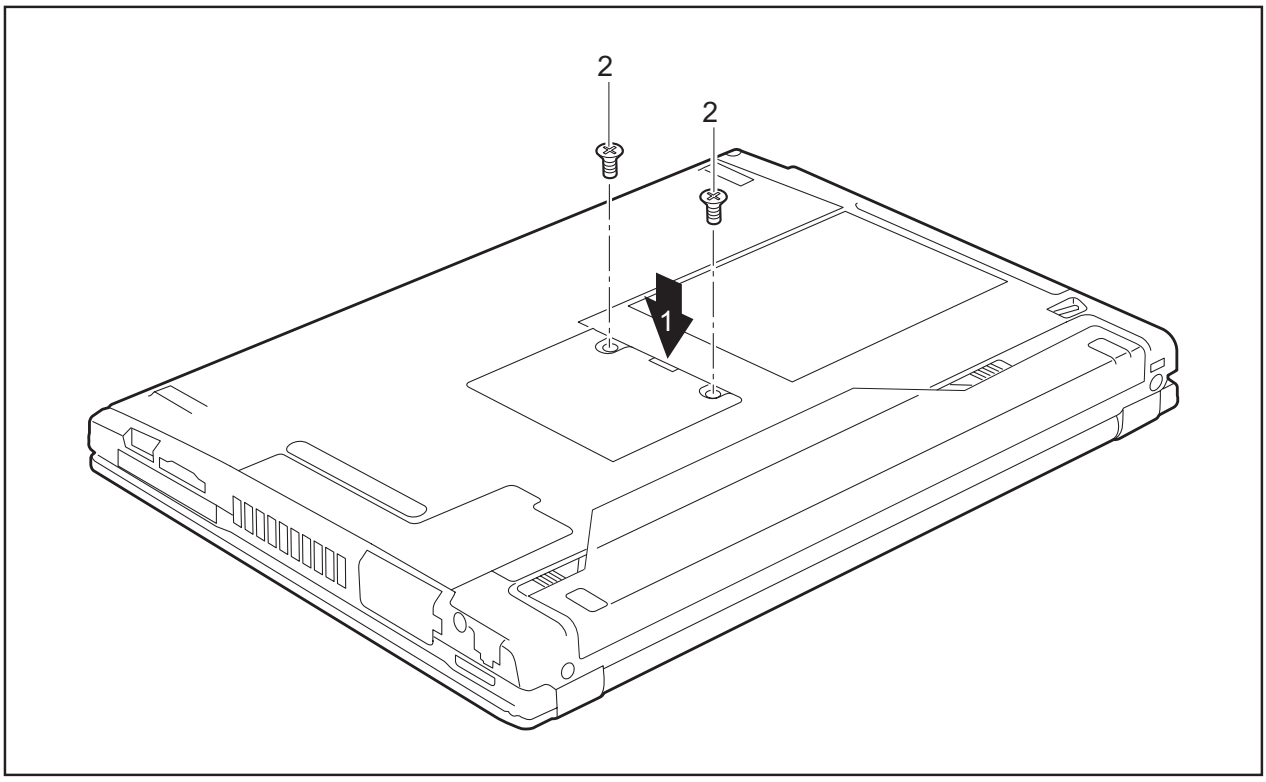
Installing a memory module



- ► Insert the memory module with the contacts and the recess (a) facing the slot (1).
- ► Carefully push the memory module downwards until you feel it click into place (2).

Attaching the cover



- ► Place the cover in the correct mounting position (1).
- ► Secure the cover with the screws (2).
- ► Re-installing the battery (see "Installing battery", Page 17).
- ► Turn the notebook the right way up and place it on a flat surface.
- ► Reconnect the cables that you disconnected previously.

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Technical data

Notebook

The installation and removal of memory modules in one of the two slots should only be carried out by an authorised technician.

General	
Processor	Intel Dual Core 2
Main memory	Maximum 4 GByte 2 slots - max. 4GB DD2 1 GByte or 2 GByte DDR2 SDRAM SO-DIMM module, 667 MHz
Suitable modules	• DVD/CD-R/RW drive • DVD Super Multi Drive • Second battery • Blind insert (Weight Saver)
Electrical data	
Regulations complied with	CE, CE!
Protection class	II
Maximum power consumption (notebook on with battery charging)	80 W
LCD screen	
Screen size (diagonal)	13.3 inch WXGA (Wide XGA), TFT
Max. resolution	1280 x 800/16 million colours
Graphics card	
Chip	GMA X 3100
Video memory (VRAM)	Shared memory
Audio	
Sound chip	ALC262
Input devices	
Keyboard	86 keys
Touchpad/TouchStick	2 buttons and 1 finger pressure sensor
Slots	
PC card slot (CardBus/PCMCIA)	PCMCIA 1 x Type II
Memory card slot	1 x MS/xD/SD Card
SIM card slot	1 x

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Ports	
Monitor port	15-pin socket
LAN port	Socket, RJ45
Microphone port	3.5 mm mono mini-jack
Headphone port	3.5 mm stereo mini jack
S-Video out socket	Mini jack
Modem port	Connector, RJ11
Infrared interface	IrDA 1.1
FireWire port	S400, 4-pin
Docking port	100-pin
USB port	3 x USB 2.0
Environmental conditions	
Environment class (3K2)	DIN IEC 721
Mechanical class (7M2)	DIN IEC 721
Temperature	
Operation	5 °C ... 35 °C
Transport	-15 °C ... 60 °C
Dimensions	
Width x depth x height	314 mm x 234 mm x 31.5 mm – 33.5 mm
Weight (depending on configuration)	Approx. 1.6 – 2.1 kg

The data sheet for this notebook contains further technical data. You can find the data sheet on your notebook or on the supplied "Drivers & Utilities" CD/DVD. The data sheet can also be downloaded from the Internet at "www.fujitsu-siemens.com".

Battery

Rated voltage	10.8 V
Rated capacity	5200 mAh

The operating time depends on the device configuration, the active applications and the energy saving settings.

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Mains adapter

Primary

Rated voltage	100 V to 240 V (automatic)
Rated frequency	50 Hz to 60 Hz (automatic)

Secondary

Rated voltage	19 V
Max. rated current	4.22 A

An additional mains adapter or power cable can be ordered at any time.

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