

# FUJITSU Workstation CELSIUS W5011

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**Issued by / EU importer**

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**Publication Date**

07/2021

Order No.: A26361-K6432-Z320-1-7619, edition 1

# **FUJITSU Workstation CELSIUS W5011**

## **Operating Manual**

<b>Your CELSIUS...</b>	<b>5</b>
<b>Ports and Operating Elements</b>	<b>7</b>
<b>Important notes</b>	<b>11</b>
<b>Getting started</b>	<b>13</b>
<b>Operation</b>	<b>31</b>
<b>Troubleshooting and tips</b>	<b>40</b>
<b>System expansions and repairs</b>	<b>44</b>
<b>Technical data</b>	<b>45</b>
<b>Index</b>	<b>46</b>

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# Contents

<b>Your CELSIUS...</b>	<b>5</b>
Validity of the Reference Manual	5
Notational conventions	6
<b>Ports and Operating Elements</b>	<b>7</b>
Front	8
Rear	9
<b>Important notes</b>	<b>11</b>
Safety information	11
Transporting the device	11
Cleaning the device	12
Energy-saving, disposal and recycling	12
<b>Getting started</b>	<b>13</b>
Unpacking and checking the delivery	13
Steps for initial setup	13
Setting up the device	14
Connecting the device to the mains supply	15
Connecting external devices	16
Ports on the device	17
Connecting a monitor	18
Connecting the mouse	20
Connecting the keyboard	20
Connecting external devices to the parallel or serial interface (optional)	21
Connecting external devices to the USB ports	21
Installing the cable cover (optional)	22
Switching on for the first time: installing the software	29
Switch on the monitor and the machine	30
Installing the software	30
<b>Operation</b>	<b>31</b>
Switch the device on	31
Switching off the device	31
Indicators on the device	32
Keyboard	34
Important keys and keyboard shortcuts	34
Settings in BIOS Setup	35
Property and data protection	36
Anti-theft protection and lead-sealing	36
Mechanical casing lock (optional)	38
BIOS setup security functions	39
Access authorisation via SmartCard	39
Operating the SmartCard reader (optional)	39
Delete data	39
<b>Troubleshooting and tips</b>	<b>40</b>
Help if problems occur	40
Troubleshooting	40
Power-on indicator remains unlit after you have switched on your device	40
The device cannot be switched off with the On/Off switch.	41
Monitor remains blank	41

- No mouse pointer displayed on the screen ..... 42
- Time and/or date is not correct ..... 42
- Error messages on the screen ..... 42
- Installing new software ..... 42
- Tips ..... 43
- System expansions and repairs ..... 44**
- Technical data ..... 45**
- Index ..... 46**



# Your CELSIUS...

... is available with various configuration levels which differ in terms of hardware and software equipment. You can install accessible drives (e.g. DVD drives) and other modules.

This manual tells you how to start using your device and how to operate it in daily use. This manual applies for all configuration levels. Depending on the chosen configuration level, some of the hardware components described may not be available on your PC. Please also read the notes about your operating system.

Depending on the configuration selected, the operating system is preinstalled on your hard disk (e.g. Windows).

Further information on this device is also provided:

- in the "Quick Start Guide" poster
- in the "Safety/regulations" manual
- in the "Warranty" manual
- in the BIOS manual for your device
- in the manual for "System expansions and repairs"
- in the operating manual for the monitor
- in the manual for the mainboard
- in the documentation for your operating system
- in the document "Data deletion"

## Validity of the Reference Manual







This Reference Manual is valid for the following system:

- FUJITSU Workstation CELSIUS W5011



For more information on the D3917 mainboard, please refer to the operating instructions online at ["https://www.fujitsu.com/emeia/support/"](https://www.fujitsu.com/emeia/support/)

## Notational conventions

	Pay particular attention to text marked with this symbol. Failure to observe these warnings could pose a risk to health, damage the device or lead to loss of data. The warranty will be invalidated if the device becomes defective through failure to observe these warnings.
	Indicates important information for the proper use of the device.
	Indicates an activity that must be performed
	Indicates a result
<b>This font</b>	indicates data entered using the keyboard in a program dialogue or at the command line, e.g. your password ( <b>Name123</b> ) or a command used to start a program ( <b>start.exe</b> )
This font	indicates information that is displayed on the screen by a program, e.g.: Installation is complete.
<i>This font</i>	indicates <ul style="list-style-type: none"> <li>terms and texts used in a software interface, e.g.: Click on <i>Save</i></li> <li>names of programs or files, e.g. <i>Windows</i> or <i>setup.exe</i>.</li> </ul>
"This font"	indicates <ul style="list-style-type: none"> <li>cross-references to another section, e.g. "Safety information"</li> <li>cross-references to an external source, e.g. a web address: For more information, go to <a href="http://www.fujitsu.com/fts/">"http://www.fujitsu.com/fts/"</a></li> <li>Names of CDs, DVDs and titles or designations for other materials, e.g.: "CD/DVD Drivers &amp; Utilities" or "Safety/Regulations" manual</li> </ul>
	indicates a key on the keyboard, e.g. 
<b>This font</b>	indicates terms and texts that are emphasised or highlighted, e.g.: <b>Do not switch off the device</b>

# Ports and Operating Elements

This chapter presents the individual hardware components of your device. This will provide you with an overview of the ports and operating elements on the device. Please familiarise yourself with these components before you start to work with the device.

## Front



- 1 = Slim-line drive (optional)
- 2 = Module bay for a 5¼-inch drive (optional)
- 3 = Module slot for optional components
- 4 = ON/OFF switch
- 5 = Drive indicator

- 6 = Connections, depending on the configuration level (see ["Ports on the device", Page 17](#))
- 7 = Latch with optional casing lock

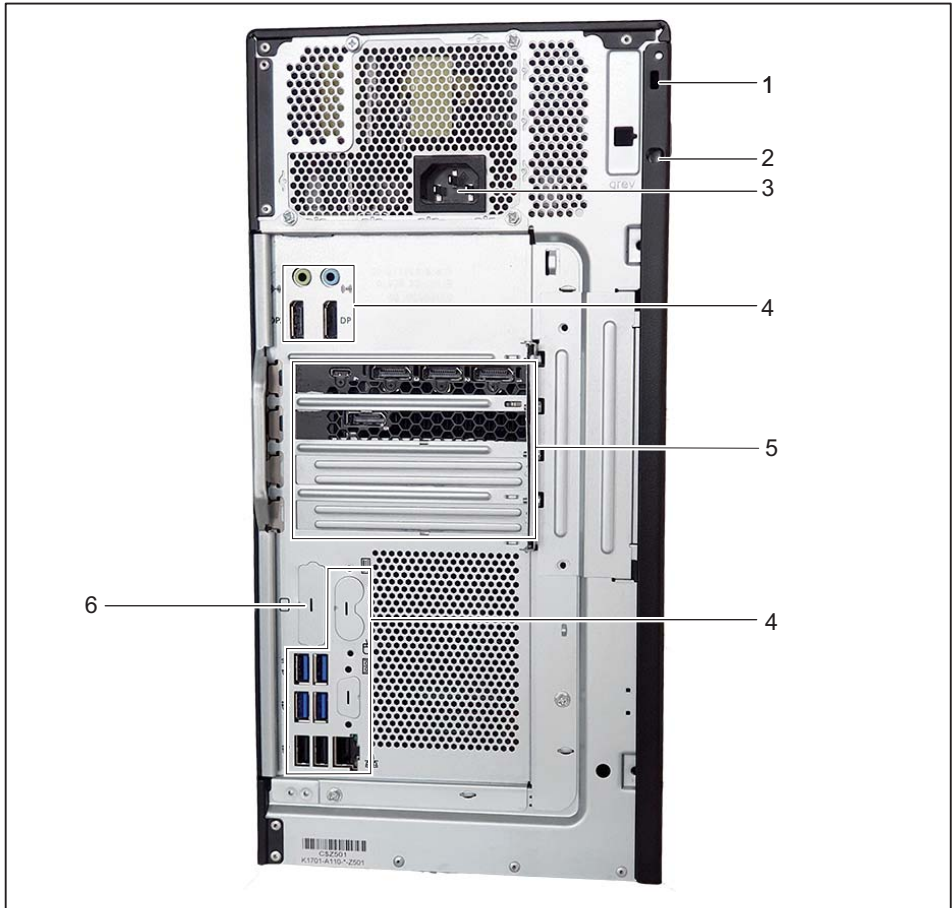
## Rear

The devices also have Flex I/O with one of the following connection types:

- Displayport
- USB Type-C
- HDMI 2.0
- VGA
- DVI-D
- LAN 2.5 GB



The connections and slots depend on the ordered variant and its configuration level, and can therefore defer from the example below.



- |   |                       |
|---|-----------------------|
| 1 = Device for a Security Lock  | 5 = Full-height slots |
| 2 = Holes for a padlock   | 6 = Flex I/O          |
| 3 = Alternating voltage socket (AC IN)  |                       |
| 4 = Connections, depending on the configuration level (see <a href="#">"Ports on the device", Page 17</a> ) |                       |



Ventilation openings on graphics cards can become hot during operation. Therefore, do not touch the graphics card during operation.

# Important notes

In this chapter you will find information regarding safety which it is essential to take note of when working with your device.

## Safety information



Please note the information provided in the "Safety/regulations" manual and in the following safety notes.

When installing and operating the device, please observe the notes on environmental conditions in Chapter ["Technical data", Page 45](#) as well as the instructions in Chapter ["Getting started", Page 13](#).

When setting up the device, make sure there is clearance all around it so that the casing receives enough ventilation. In order to avoid overheating, do not cover the ventilation areas of the monitor or the device.

You must only operate the device if the rated voltage used by the device is set to the local mains voltage.

The main switch (if present) and the ON/OFF switch do not disconnect the device from the mains voltage. To completely disconnect from the mains voltage, remove the power plug from the power socket.

Only operate the device with the casing closed.

Replace the lithium battery on the mainboard in accordance with the instructions in manual "System Upgrades and Repairs".

Caution, components in the system can get very hot.

The activities described in these instructions must always be performed with the greatest care.

Repairs to the device must only be performed by qualified technicians. Incorrect repairs could put the user at great risk or cause serious damage to the equipment (electric shock, risk of fire).

## Transporting the device



Transport all parts separately in their original packaging or in a packaging which protects them from knocks and jolts, to the new site.

Do not unpack them until all transportation manoeuvres are completed.

If the device is brought from a cold environment into the room where it will be used, condensation may occur. Before operating the device, wait until it is absolutely dry and has reached approximately the same temperature as the installation site.

## Cleaning the device



Turn off all power and equipment switches and disconnect the power plug from the mains outlet.

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 (alcohol, thinner or acetone).

Never clean the device with water! Water entering into the device could present a serious risk to users (e.g. electric shock).

Ensure that no liquid enters the system.

The surface can be cleaned with a dry cloth. If particularly dirty, use a cloth that has been moistened in mild domestic detergent and then carefully wrung out.

Use disinfectant wipes to clean the keyboard and the mouse.

## Energy-saving, disposal and recycling

You can find information on these subjects in the "Environment and Energy Information" manual or on our website ("<http://www.fujitsu.com/fts/about/fts/environment-care/>").



# Getting started



Please observe the safety information in the ["Important notes", Page 11](#) chapter.

## Unpacking and checking the delivery

It is recommended not to throw away the original packaging material! It may be required for reshipment at some later date.

- ▶ Unpack all the individual parts.
- ▶ Check the contents of the package for any visible damage caused during transport.
- ▶ Check whether the delivery conforms to the details in the delivery note.
- ▶ Should you discover that the delivery does not correspond to the delivery note, notify your local sales outlet immediately.

## Steps for initial setup

Only a few steps are necessary to put your new device into operation for the first time:

- Select a location for device and set up device
- Connect external devices such as mouse, keyboard and monitor
- Check the voltage at the mains outlet and connect the device to an electrical outlet
- Switch the device on

You will learn more about the individual steps in the following sections.

### External devices



If you have received other external devices in addition to your own device (e.g. a printer), do not connect these until after the initial installation. The following sections describe how to connect these external devices.

### Drives and boards



If you have received drives or boards with your device, please do not install them until after first-time setup. The installation of drives and modules is described in the "System Upgrades and Repairs" manual.

## Setting up the device



When installing your device, please read the recommendations and safety notes in the "Safety/regulations" manual.

We recommend that you place your device on a surface which is not slippery. In view of the many different finishes and varnishes used on furniture, it is possible that the rubber feet will mark the surface they stand on.

Depending on your device location, disturbing vibrations and noises may occur. In order to avoid this, a minimum distance of 10 mm / 0.39 inch to other devices or objects should be maintained on housing sides without ventilation surfaces.

In order to avoid overheating, do not cover the ventilation areas of the monitor or the device.

For ventilation surfaces, a minimum distance of 200 mm / 7.87 inch from the device must be maintained.

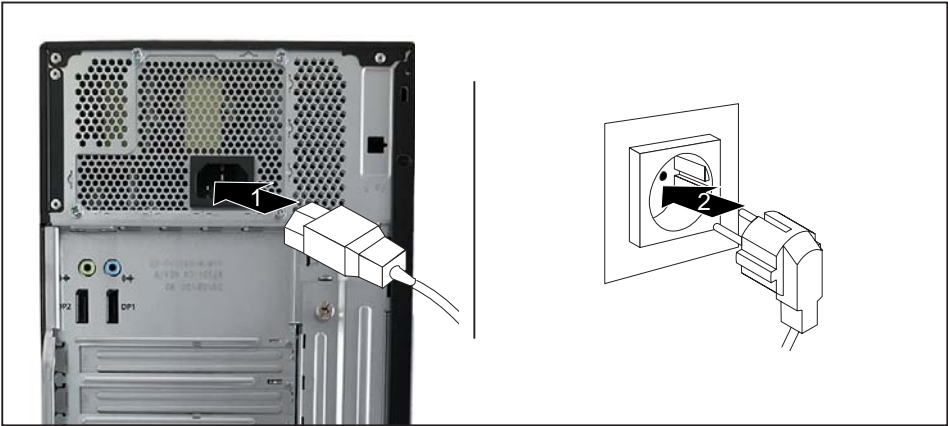
Do not stack several devices on top of each other.

Do not expose the device to extreme ambient conditions (see ["Technical data", Page 45](#), section "Ambient conditions"). Protect the device against dust, humidity and heat.

# Connecting the device to the mains supply



Use the following table to check which mains plug applies for your country. The following illustration may be different from your country variant.



- Connect the power cable to the device (1).
- Plug the power plug into a grounded mains outlet (2).

Power connection	Country
	USA, Canada, Mexico, parts of South America, Japan, Korea, the Philippines, Taiwan
	Russia and the Commonwealth of Independent States (CIS), large parts of Europe, parts of South America, the Middle East, parts of Africa, Hong Kong, India, large parts of South Asia.
	UK, Ireland, Malaysia, Singapore, parts of Africa
	China, Australia, New Zealand

## Connecting external devices



Read the documentation on the external device before connecting it.

With the exception of USB devices, always remove all power plugs before connecting external devices!

Do not connect or disconnect cables during a thunderstorm.

Always take hold of the actual plug when disconnecting a cable. Never pull the cable!

To ensure that your device works properly, use only the supplied connection cable or only use a high-quality connection cable.

## Ports on the device














The ports are located on the front and back of the device. The ports available on your device depend on the configuration level you have selected. The standard ports are marked with the symbols shown below (or similar). Detailed information on the location of the ports is provided in the manual for the mainboard.



The maximum possible configuration level of the device is described below.

The connections on the device depend on the ordered variant and its configuration level, and can therefore defer from the table below (e.g. Flex I/O connections).

Some of the connected devices require special drivers (see the documentation for the connected device).

	Combined headphone and microphone port, black (Line In/Out)		Audio input (Line In), light blue
	Audio output (Line Out), light green		USB 2.0 - Universal Serial Bus, type A, black
	USB 3.2 Gen1 - Universal Serial Bus, Type A: blue, Type C: black		USB 3.2 Gen2 - Universal Serial Bus, type A: blue, type C: black
	PS/2 mouse port, green		USB 3.2 Gen2x2 - Universal Serial Bus, type A: blue, type C: black
	DVI-D monitor port		PS/2 keyboard port, purple
	VGA monitor port, blue	<b>DP1 / DP2</b>	Display port
	Serial port	<b>HDMI</b>	HDMI port
<b>LAN</b> 	LAN port		



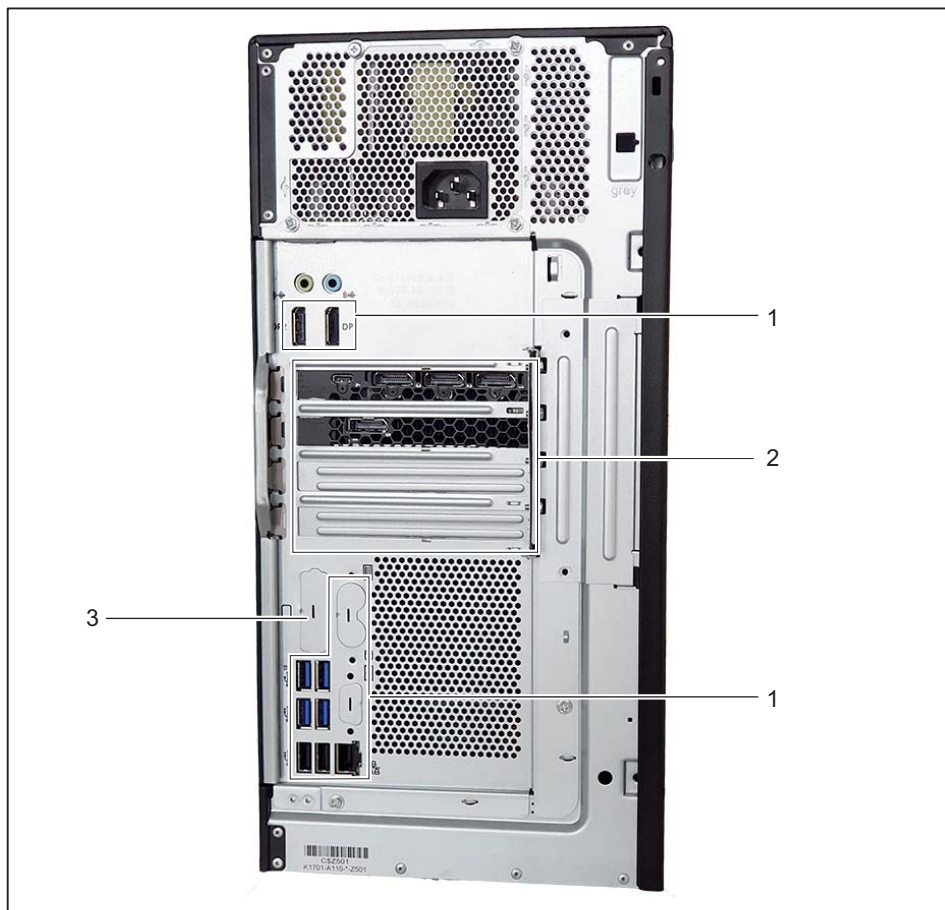
Some of the connected devices require special software (e.g. drivers) (refer to the documentation for the connected device and operating system).

## Connecting a monitor



Only connect the screen to your device when it is switched off.

Depending on requirements, you can use the monitor ports of the mainboard (1) or the monitor ports of an optional display adapter in one of the board slots (2) to connect a monitor to your device.



- |   |                                 |
|---|---------------------------------|
| 1 = Screen connections of the mainboard     | 3 = Flex I/O monitor connection |
| 2 = Screen connections of the graphics card |                                 |

- Follow the instructions contained in the monitor manual to prepare the monitor for operation (e.g. connecting cables).

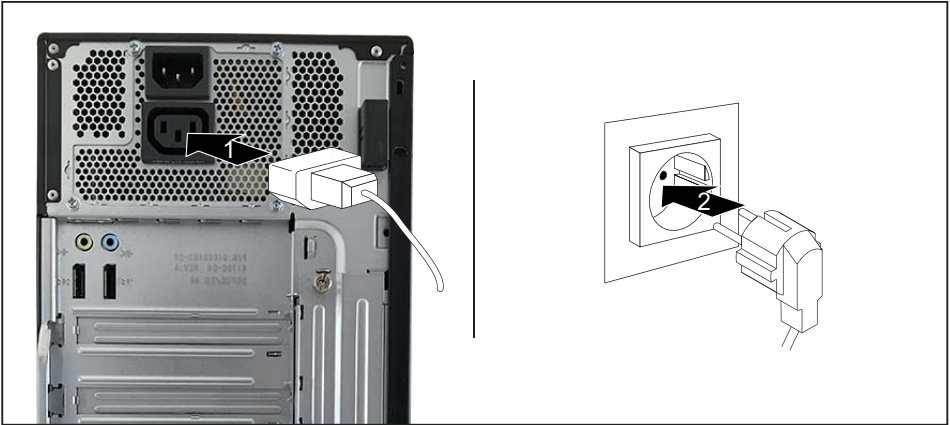
- Plug the data cable into a suitable monitor port of the device (VGA, DVI-D, Displayport, HDMI).

**i**

**On devices with monitor socket:**



The monitor power cable may only be connected to the monitor socket of the device if the monitor current consumption is less than 1.0 A at 230 V or 2.0 A at 100 V. The values for the monitor current consumption can be found in the technical data on the monitor or in the operating manual for the monitor.



- Depending on your device configuration level, plug the monitor power cable into either the monitor socket of the device (1) or a grounded power outlet (2).

**i**

When you connect the monitor to the monitor socket of the device, it automatically switches off as soon as the device switches off.

## Connecting the mouse

You can connect a USB mouse or a PS/2 mouse to your device.

### Connecting a USB mouse

- ▶ Connect the USB mouse to one of the USB ports on the device.

### Connecting a PS/2 mouse

- ▶ Connect the PS/2 mouse to the PS/2 mouse port of the device.

## Connecting the keyboard

### Connecting a USB keyboard

Use the supplied keyboard cable only.

- ▶ Plug the rectangular connector of the keyboard cable into the rectangular socket on the underside or on the rear of the keyboard.
- ▶ Plug the flat rectangular USB connector of the keyboard cable into a USB port of the device.

### Connecting a PS/2 keyboard

Use the supplied keyboard cable only.

- ▶ Plug the rectangular connector of the keyboard cable into the rectangular socket on the underside or on the rear of the keyboard.
- ▶ Plug the round connector of the keyboard cable into a keyboard port of the device.



## Connecting external devices to the parallel or serial interface (optional)

External devices can be connected to the parallel or serial port (e.g. a printer or a scanner).

- ▶ Connect the data cable to the external device.
- ▶ Depending on the device, connect the data cable to the parallel port or the serial port.



For an exact description of how to connect external devices to the corresponding port, please refer to the documentation of the external device.

### Port settings



You can change the port settings (e.g. address, interrupt) in the *BIOS Setup*.

### Device drivers



The devices connected to the parallel or serial port require drivers. Your operating system already includes many drivers. If the required drive is missing, install it. Current drivers are usually available on the Internet or will be supplied on a data carrier.

## Connecting external devices to the USB ports

You can connect a wide range of external devices to the USB ports (e.g. printer, scanner, mouse or keyboard).



USB devices are hot-pluggable. This means you can connect and disconnect USB cables while your device is switched on.

Additional information can be found in the documentation for the USB devices.

- ▶ Connect the data cable to the external device.
- ▶ Connect the data cable to one of the USB ports on your device.

### Device drivers



External USB devices which you connect to one of the USB ports don't usually need their own drivers because the software required is already included in the operating system. If the device requires separate software, please follow the instructions in the manufacturer's documentation.

## Installing the cable cover (optional)

- All necessary lines are connected to the device.
- All necessary measures to protect property and data have been taken (see ["Property and data protection", Page 36](#)).

The cable cover is constructed as follows:



a = Locking elements

c = Cable opening

b = Guide rail

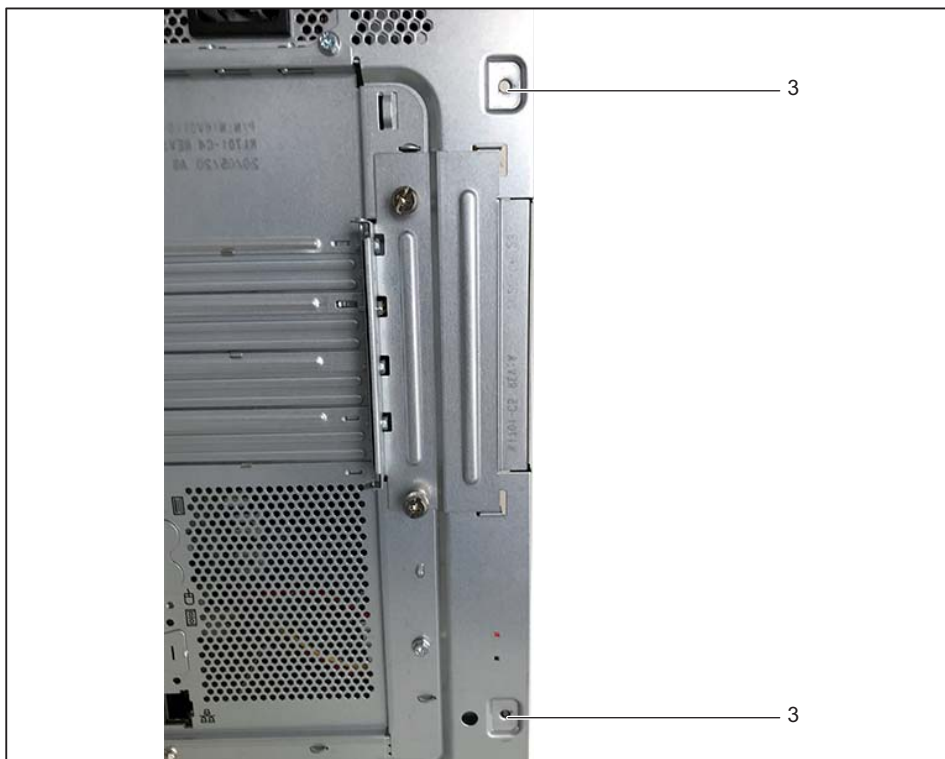
- On devices with a housing lock: Unlock the casing.



- Pull the latch and lift the side panel off the housing (1).



- ▶ Insert the guide rail (b) in the corresponding metal tab (2) to the left of the connections.
- ↳ The cable opening (c) faces downwards.
- ▶ Route the cables out through the cable opening (c) in the cable cover.



- Press the locking elements (a) into the corresponding openings (3) on the outer right side of the housing.

↳ The cable cover is positioned:





- Close the housing (4).
- On devices with a housing lock: Lock the casing.

↳ The cable cover is secured:



Further secure the cable cover with the side panel to prevent unauthorised removal (see ["Property and data protection", Page 36](#)).



## Switching on for the first time: installing the software



Once the installation has been started the device must not be switched off, unless the installation has been completed.

During installation, the device may only be rebooted when you are requested to do so!

The installation will otherwise not be carried out correctly and the contents of the hard disk must be completely restored.



If the device is integrated into a network, the user and server details as well as the network protocol are required during the software installation.

Contact your network administrator if you have any questions about these settings.

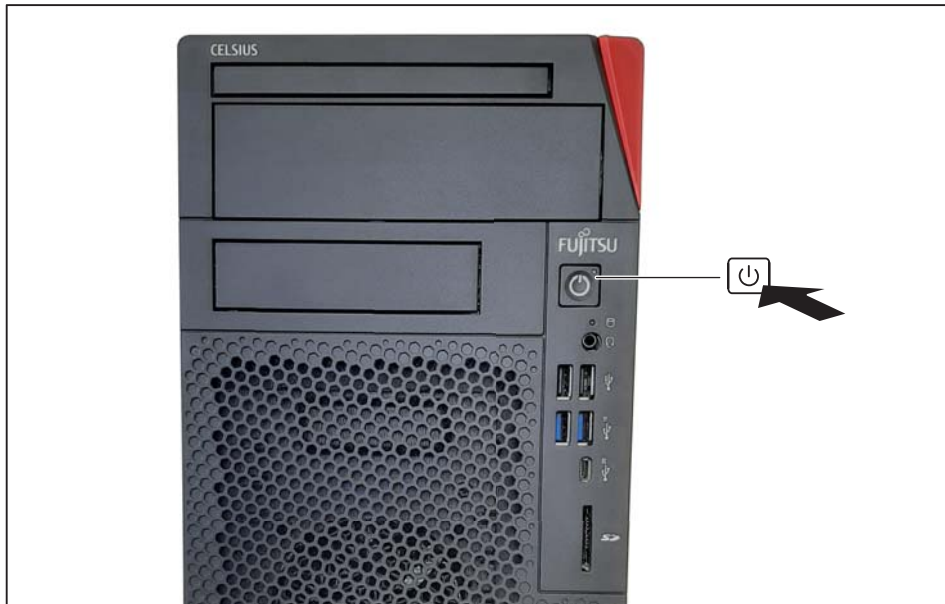
When you switch on the device for the first time, the supplied software is installed and configured. Plan a reasonable amount of time for this, as this process must not be interrupted.

### Switch on the monitor and the machine



In order to avoid overheating, do not cover the ventilation areas on the monitor or the device.

- Switch on the monitor (see operating instructions for the monitor).



- Press the on/off button on the front of the machine.
- ↳ The operational display will light up and the machine will start.

### Installing the software

- During installation, follow the on-screen instructions.
- If anything is unclear regarding the data you are asked to input, read the online Help in your operating system.



You will find more information on the system, as well as drivers, utilities and updates on the optional "Drivers & Utilities" DVD and on the Internet at ["http://www.fujitsu.com/fts/support"](http://www.fujitsu.com/fts/support).

You can find information and help on the Windows operating system functions on the Internet at ["http://windows.microsoft.com"](http://windows.microsoft.com).

# Operation

## Switch the device on

- ▶ If necessary, switch the monitor on (see the operating manual for the monitor).
- ▶ Press the ON/OFF switch on the front of the device.
- ↳ The power indicator glows and the device is started.

## Switching off the device

- ▶ Shut down the operating system in the proper way.
- ▶ If the operating system does not automatically switch the device into energy-saving mode or switch it off, press the ON/OFF switch. Warning, this could lead to a loss of data!



The ON/OFF switch does not disconnect the device from the mains voltage. For complete disconnection from the mains voltage, you must pull the mains plug out of the socket.

- ▶ If necessary, switch the monitor off (see the operating manual for the monitor).

# Indicators on the device

The indicators are on the front of the casing. Which indicators are available on your device depends on the configuration level you have selected.

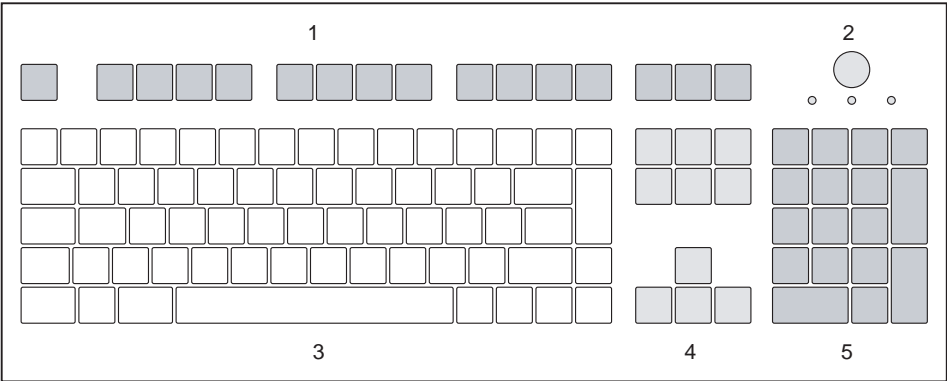


No.	indicator	Description
1	Drive indicators	The indicator lights up when the CD-ROM or DVD drive of the device is accessed. You must never under any circumstances remove the CD/DVD while the indicator is lit.
2	Indicator for optional components, e.g. SmartCard reader	The indicator lights up when the optional component, e.g. the SmartCard reader, is accessed.
3	Power-on indicator	<b>Warning:</b> In the energy saving mode, the device must not be disconnected from the mains, as this can result in a loss of data. <ul style="list-style-type: none"><li>Indicator is illuminated: The device is switched on.</li><li>The indicator flashes (depending on device type): The device is in energy-saving mode. After being switched on with the ON/OFF switch, the device powers up or returns to the state it was in before it entered energy-saving mode.</li><li>The indicator is not illuminated: The device is switched off or disconnected from the mains. If the device is ready for operation, it can be switched on with the ON/OFF switch.</li></ul>
4	Hard disk indicator	The indicator lights up when the hard disk drive of the device is accessed.

# Keyboard



The illustrated keyboard is an example and may differ from the model you use.












- 1 = Function keys
- 2 = On/off switch (optional)
- 3 = Alphanumeric keypad
- 4 = Cursor keys
- 5 = Numeric keypad (calculator keypad)

## Important keys and keyboard shortcuts

The description of the following keys and keyboard shortcuts applies to Microsoft operating systems. Details of other keys and keyboard shortcuts can be found in the documentation for the relevant application program.

Key / key combination	Description
	<b>On/off switch (optional)</b>  Depending on the setting in the <i>BIOS Setup</i> , the device can be switched on or off with this switch. Some operating systems allow you to configure additional functions of the ON/OFF switch in the Control Panel.  With some keyboards the ON/OFF switch can only be used with an ACPI (Advanced Configuration and Power Management Interface). Otherwise the key is inoperative. The mainboard must support this function.
	<b>Enter key</b>  confirms the highlighted selection. The Enter key is also referred to as the "Return" key.

Key / key combination	Description
	<b>Windows key</b> calls up the Windows <i>Start</i> menu.
	<b>Menu key</b> calls up the menu for the marked item (Windows).
	<b>Shift key</b> enables upper-case letters and the upper key symbols to be displayed.
	<b>Alt Gr key (country-dependent)</b> produces a character shown on the bottom right of a key (e.g. the @ sign on the  key).
	<b>Num Lock key</b> By pressing the Num Lock key you switch between the upper- and lower-case levels of the calculator keypad.  When the Num Lock indicator is lit the numeric keypad and arithmetic keys are active.  When the Num Lock indicator is not lit the cursor control functions on the Numeric keypad are active.
	<b>Ctrl key</b> performs a special operation when pressed in conjunction with another key. The  key is also called the "Control" or "Control key".
	<b>Windows Security/Task Manager</b> This key combination opens the Windows Security/Task Manager window.

## Settings in BIOS Setup

In the *BIOS Setup*, you can set system functions and the hardware configuration of the device. At delivery, the default entries are effective (see BIOS manual or mainboard manual). You can customize these settings in the *BIOS Setup*.

## Property and data protection

Software functions and mechanical locking offer a broad range of functions for protecting your device and your personal data against theft and unauthorised access. You can also combine these functions.

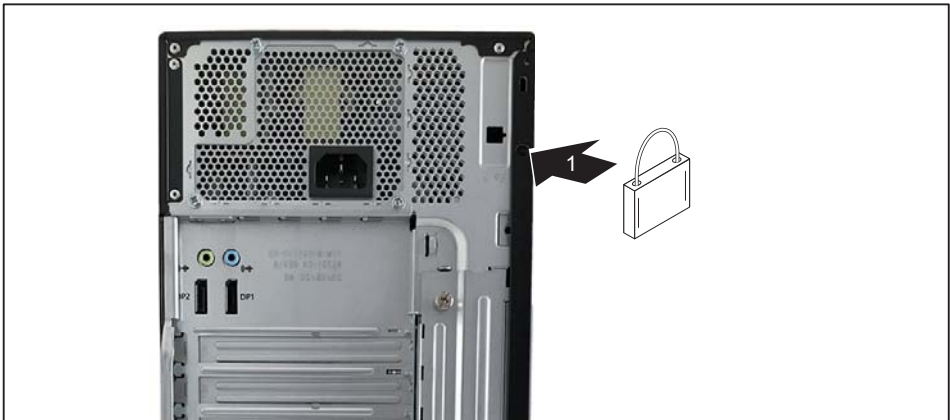
### Anti-theft protection and lead-sealing



To avoid risk of injury, please ensure that the device is kept out of the reach of small children.

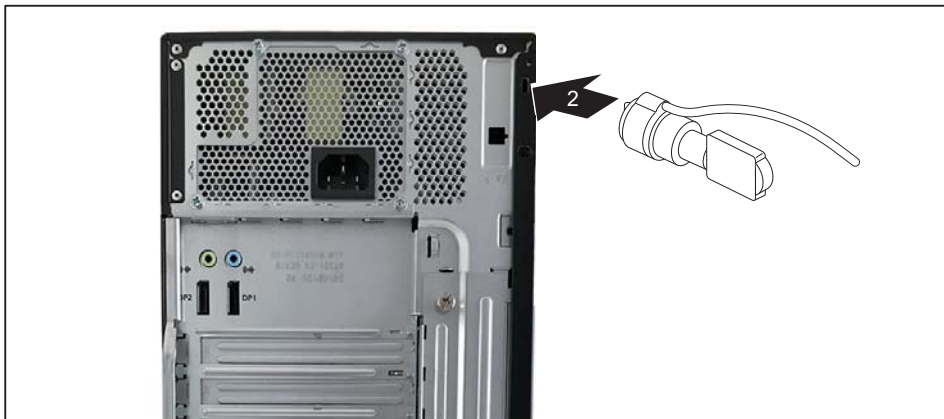
Unauthorised opening of the housing can also greatly endanger third parties (electric shock, risk of fire, etc.).

Use the measures described below to keep unauthorised persons from accessing the interior of the housing.



1 = Holes for a padlock





2 = Device for a security lock

### Anti-theft protection

You can protect your device from theft

- with the holes (1) and a padlock and chain which you have connected to a fixed object beforehand.
- with the Security Lock device (2) and a Kensington MicroSaver. Please consult the manual for your Security Lock.

### Lead-sealing

To prevent unauthorised persons from opening the casing, the casing can be lead-sealed. To do this, feed the sealing chain through the holes (1) and seal the chain with the lead seal.

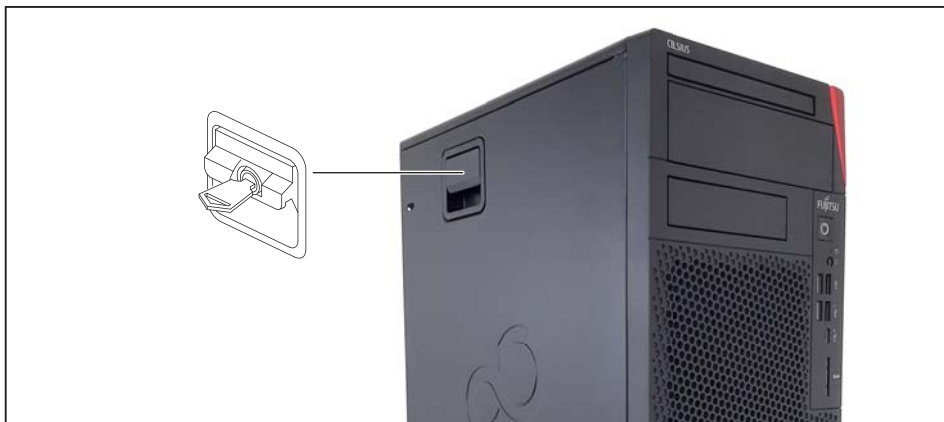
## Mechanical casing lock (optional)

With the casing lock you can mechanically lock the casing to prohibit unauthorised persons from opening it. The keys can be found on the rear panel of your device.




In addition to the casing lock, an open  and a closed lock  are also illustrated.


- Key turned towards the closed lock: The device is locked.
- Key turned towards the open lock: The device is unlocked.



### Locking the casing

- Turn the key towards the closed lock .

### Unlocking the casing

- Turn the key towards the open lock .

## BIOS setup security functions

The *Security* menu in *BIOS Setup* offers you various options for protecting your personal data against unauthorized access, e.g.:

- Prevent unauthorized access to *BIOS Setup*
- Prevent unauthorised system access
- Prevent unauthorised access to the settings of boards with their own BIOS
- Activate virus warnings
- Protect BIOS from overwriting
- Protect the device from being switched on by an external device

You can also combine these functions.

A detailed description of the *Security* menu and how to assign passwords can be found in the manual for the mainboard or in the BIOS manual.

## Access authorisation via SmartCard

In systems equipped with a SmartCard reader, access can be restricted to those users who have a corresponding SmartCard.

## Operating the SmartCard reader (optional)



Operation of a SmartCard reader with a RFID reader is not permitted in Taiwan.

- Connect the external SmartCard reader to your system as described in the instructions for the SmartCard reader.
- ↳ After the device is switched on, you will be prompted to insert your SmartCard.

## Delete data

### Erase Disk function for hard disks and solid state drives

*Erase Disk* is a solution integrated in the firmware of FUJITSU desktops (*UEFI: Unified Extensible Firmware Interface*) to delete all data from a hard disk or Solid State Disc drives (SSDs).

With this function, all data from internal disks or SSDs can be irretrievably deleted before the hard disks or the whole system are disposed of. The function can also be used if hard disks are to be completely deleted, e.g. before installing a new operating system.



Further information on *Erase Disk* can be found on the Internet at ["http://support.ts.fujitsu.com/download"](http://support.ts.fujitsu.com/download).

# Troubleshooting and tips



Refer to the safety notes in the "Safety/regulations" manual and in the ["Getting started", Page 13](#) chapter when connecting or disconnecting cables.

If a fault occurs, try to correct it as described in the following documentation:

- in this chapter
- in the documentation for the connected devices
- in the help systems of the software used
- in the documentation for your operating system

## Help if problems occur

Should you encounter a problem with your computer that you cannot resolve yourself:

- ▶ Note the ID number of your device. The ID number is found on the type rating plate on the back, the underside or the top of the casing.
- ▶ Contact the Service Desk responsible for your country for clarification of the problem: ["http://support.ts.fujitsu.com/contact/servicedesk"](http://support.ts.fujitsu.com/contact/servicedesk). When you do this, please have ready the ID number and serial number of your system.

## Troubleshooting

### Power-on indicator remains unlit after you have switched on your device

Cause	Troubleshooting
The mains voltage supply is faulty.	<ul style="list-style-type: none"><li>▶ Check whether the power cable is plugged properly into the device and a grounded mains outlet.</li></ul>
Internal power supply overloaded.	<ul style="list-style-type: none"><li>▶ Pull the power plug of the device out of the mains outlet.</li><li>▶ Wait approx. 3 min.</li><li>▶ Plug the power plug into a properly grounded mains outlet again.</li><li>▶ Switch the device on.</li></ul>

## The device cannot be switched off with the On/Off switch.

Cause	Troubleshooting
System crash	<ul style="list-style-type: none"> <li>▶ Press the On/Off switch for at least 4 seconds, until the device switches off.</li> </ul> <p>Attention: Warning, this could lead to a loss of data!</p> <p>The Operating System is not shut-down properly in the process. Error messages are therefore possible the next time the system is booted.</p>

## Monitor remains blank

Cause	Remedy
Monitor is switched off	<ul style="list-style-type: none"> <li>▶ Switch your monitor on.</li> </ul>
Power saving has been activated (screen is blank)	<ul style="list-style-type: none"> <li>▶ Press any key on the keyboard.</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>▶ Deactivate the screen saver. If necessary, enter the appropriate password.</li> </ul>
Brightness control is set to dark	<ul style="list-style-type: none"> <li>▶ Adjust the brightness control. For detailed information, please refer to the operating manual supplied with your monitor.</li> </ul>
Power cable not connected	<ul style="list-style-type: none"> <li>▶ Switch off the monitor and the device.</li> <li>▶ Check that the monitor power cable is properly connected to the monitor and to a grounded mains outlet or to the monitor socket of the device.</li> <li>▶ Check that the device power cable is properly plugged into the device and a grounded mains outlet.</li> <li>▶ Switch on the monitor and the device.</li> </ul>
Monitor cable not connected	<ul style="list-style-type: none"> <li>▶ Switch off the monitor and the device.</li> <li>▶ Check that the monitor cable is properly connected to the device and monitor.</li> <li>▶ Switch on the monitor and the device.</li> </ul>
Incorrect setting for the monitor	<ul style="list-style-type: none"> <li>▶ Restart the system.</li> <li>▶ Press <b>[F8]</b> while the system is booting.</li> <li>▶ Start the system in Safe Mode.</li> <li>▶ Set up the monitor as described in the documentation for your operating system and monitor.</li> </ul>

## No mouse pointer displayed on the screen

Cause	Remedy
The mouse is not correctly connected.	<ul style="list-style-type: none"> <li>▶ Shut down your operating system in the proper manner, for instance using <b>Ctrl</b> + <b>Alt</b> + <b>Del</b>.</li> <li>▶ Switch the device off.</li> <li>▶ Check that the mouse cable is properly connected to the system unit. If you use an adapter or extension lead with the mouse cable, check the connections.</li> <li>▶ Make sure that only one mouse is connected.</li> <li>▶ Switch the device on.</li> </ul>
Disabled USB ports	<ul style="list-style-type: none"> <li>▶ Check in the <i>BIOS Setup</i> whether the used USB ports are <i>enabled</i> (see BIOS manual or manual for the mainboard).</li> </ul>

## Time and/or date is not correct

Cause	Remedy
Time and date are incorrect.	<ul style="list-style-type: none"> <li>▶ Set the correct time and date within the operating system you are using.</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>▶ Set the correct time and/or date in the <i>BIOS Setup</i>.</li> </ul>
The lithium battery is empty.	<ul style="list-style-type: none"> <li>▶ If the time and date are repeatedly wrong when you switch your device off and then on, change the lithium battery (see the "System expansions and repairs" manual).</li> </ul>

## Error messages on the screen

Error messages and their explanations are provided:

- in the technical manual for the mainboard
- in the documentation for the programs used

## Installing new software

When installing programs or drivers, important files may be overwritten and modified. To be able to access the original data in the event of any problems following installation, you should backup your hard disk prior to installation.

## Tips

Topic	Tip
Out of system resources	<ul style="list-style-type: none"> <li>▶ Close unnecessary applications.</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>▶ Run the applications in a different order.</li> </ul>

# System expansions and repairs



Information on system expansions and repairs can be found on the Internet in the "System Expansions and Repairs" manual at ["http://www.fujitsu.com/fts/support"](http://www.fujitsu.com/fts/support).

Operations that are distinguished in the manual as Only For Service, such as repairs to the device, may only however be performed by authorised service technicians. Incorrect repairs may greatly endanger the user (electric shock, fire risk) and will invalidate your warranty.



# Technical data

Electrical data	
Protection class:	I
Rated voltage range	100 V – 240 V
Rated frequency	50 Hz – 60 Hz

Max. rated current:			
Model	Power supply	Without monitor socket	Monitor socket
FUJITSU Workstation CELSIUS W5011	Power supply Platinum 680W (E645-V50)	7.5 – 3.5 A	–
	Power supply Platinum 300W (E642-V20)	5.5 – 2.5 A	2.0 – 1.0 A

Dimensions	
Width/depth/height without cable cover:	180 mm x 304 mm x 374 mm / 7,09 inch x 11,97 inch x 14,72 inch
Width/depth/height with cable cover (optional):	180 mm x 369 mm x 374 mm / 7,09 inch x 14,53 inch x 14,72 inch

Weight	
Depending on the device variant and configuration level	c. 8 kg / 17,64 lbs

Ambient conditions	
Environment class 3K2	DIN IEC 721 part 3-3
Environment class 2K2	DIN IEC 721 part 3-2
Temperature	
Operation (3K2)	10 °C .... 35 °C / 50 °F ... 95 °F
Transportation (2K2)	-25 °C .... 60 °C / -3 °F ... 140 °F
The formation of condensation is not permitted while the device is in operation !	
Clearance required to ensure adequate ventilation:	
without air vents	at least 10 mm / 0,39 inch
with air vents	at least 200 mm / 7,87 inch



The data sheets of these devices contains further technical data. The data sheets can be found on our website at ["http://www.fujitsu.com/fts/"](http://www.fujitsu.com/fts/).

# Index

## A

- Access permission, SmartCard 39
- Alphanumeric keypad 34
- Anti-theft protection 36
- Audio input 17
- Audio output 17

## B

- BIOS Setup 35
  - security functions 39
- BIOS Setup,
  - configuration 35
  - settings 35
  - system settings 35
- Button,
  - ON/OFF switch 34

## C

- Casing
  - Mechanical lock 38
- Casing lock 38
- Casing mechanical lock 38
- Casing,
  - Lead-sealing 36
- Chain 36
- Components
  - installing/removing 44
- Connecting a PS/2 keyboard 20
- Connecting,
  - keyboard 20
  - mouse 20
  - PS/2 keyboard 20
  - PS/2 mouse 20
  - USB keyboard 20
- Contents of delivery 13
- Ctrl+Alt+Del 35
- Cursor keys 34

## D

- data
  - delete 39
- Data protection 36
- Device
  - setting up 14
  - Switching on 31
- Device drivers
  - Parallel port 21

- Device drivers,

- Serial port 21

- Device,

- Anti-theft protection 36
  - Lead-sealing 36
  - ports 17
  - switching off 31
  - transporting 11–12
  - upgrades 44

- Devices

- connecting 21

- Devices,

- connecting 21

- Displayport 17

- Disposal 12

- DVI-I monitor port 17

## E

- Erase Disk 39
- Ergonomic
  - Workstation 14
- External devices
  - connecting 21
- External devices,
  - connecting 21
  - ports 17

## F

- Function keys 34

## G

- Getting started 13

## I

- Important notes 11
- Installing,
  - software 29–30
  - switching on for the first time 29
- Interfaces 17

## K

- Kensington Lock 36
- Keyboard 34
- Keyboard port 17
- keyboard shortcuts 35
- Keyboard shortcuts 34

Keyboard,  
  alphanumeric keypad 34  
  connecting 20  
  cursor keys 34  
  function keys 34  
  numeric keypad 34  
  port 20

Keys 34  
  Ctrl 35  
  Ctrl+Alt+Del 35

Keys,  
  Alt Gr 35  
  Control 35  
  Ctrl key 35  
  cursor keys 34  
  Enter 34  
  Enter key 34  
  menu key 35  
  Num Lock 35  
  Return 34  
  shift 35  
  shift key 35  
  Start key 35

**L**  
LAN port 17  
Lead-sealing 36  
Line In 17  
Line Out 17  
Lock 38

**M**  
Mains adapter  
  connecting 15  
Monitor  
  Switching on 31  
Monitor port 17  
Monitor,  
  switching off 31  
Mouse port 17  
Mouse,  
  connecting 20

**N**  
Note  
  safety 11  
Notes  
  important 11  
Numeric keypad 34

**O**  
ON/OFF switch 34  
Overview  
  Device 5

**P**  
Packaging 13  
Packaging,  
  unpacking 13  
Parallel port 21  
  Connecting devices 21  
  Settings 21  
Ports 7  
Preparing for first use, overview 13  
Preparing for use,  
  overview 13  
Property protection 36  
PS/2 mouse port 17  
PS/2 mouse,  
  connecting 20  
  port 20

**R**  
Recycling 12  
Retransportation 11–12

**S**  
Safety information 11  
Saving energy 12  
Security functions  
  BIOS Setup 39  
  SmartCard 39  
Security measures 36  
Serial interface 17  
Serial port 21  
  Connecting devices 21  
Serial port,  
  Settings 21  
Servicing 44  
Setup,  
  see BIOS Setup 35  
SmartCard reader,  
  operating 39  
Software,  
  installing 29–30  
System expansion 44  
System settings,  
  BIOS Setup 35  
System unit, see Device 12

### **T**

Transportation 11–12

### **U**

Universal Serial Bus 17

Upgrades,  
    device 44

USB devices,  
    connecting 21

USB port 20

USB port,  
    connecting devices 21  
    connecting keyboard 20  
    connecting the mouse 20

### **W**

Workstation 14