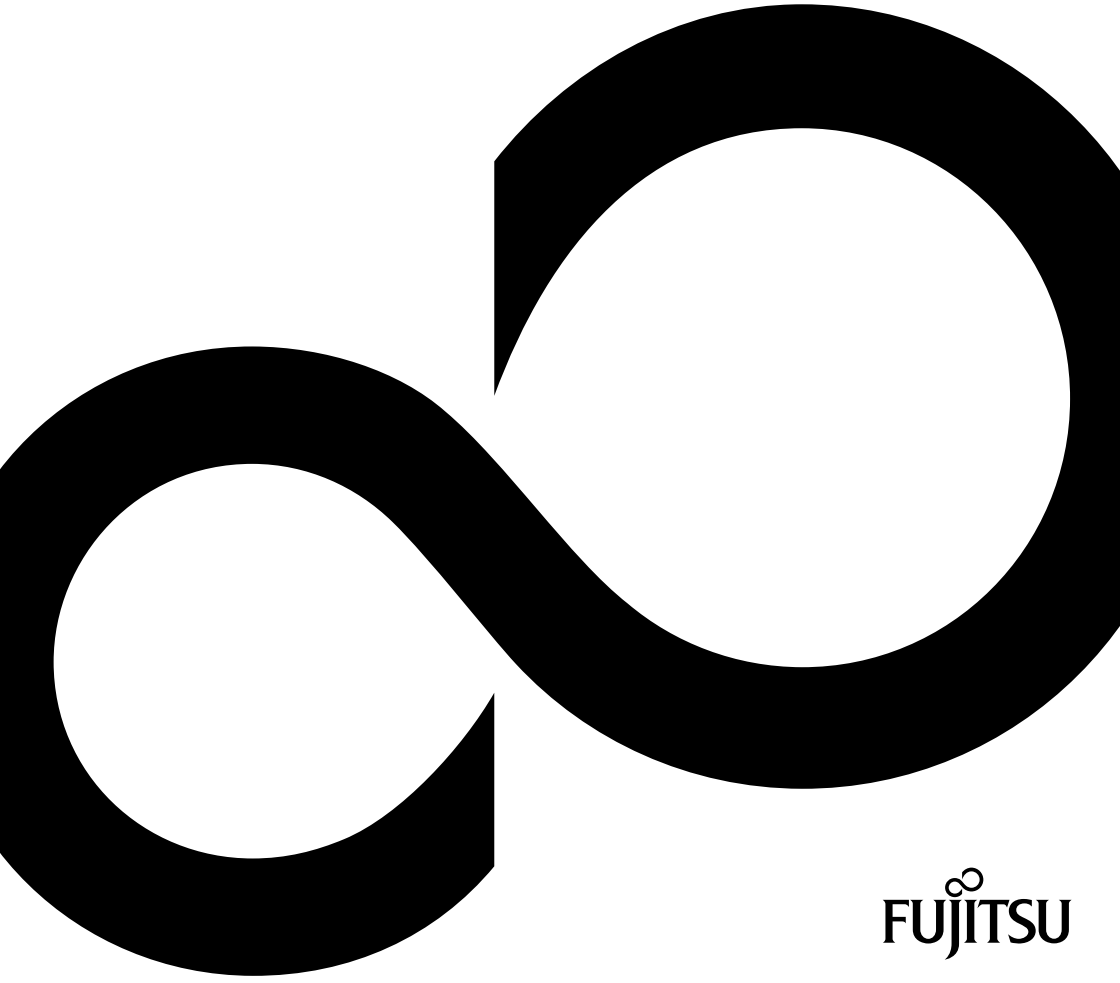
FUJITSU Tablet STYLISTIC V535



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- our Hotline/Service Desk (see the Service Desk list or visit: "http://support.ts.fujitsu.com/contact/servicedesk")
- Your sales partner
- Your sales office

We hope you enjoy working with your new Fujitsu system!

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FUJITSU Tablet STYLISTIC V535

Operating manual

Innovative technology	**7**
Ports and controls	**9**
Important notes	**12**
First-time setup of your device	**17**
Working with the Tablet PC	**20**
Accessories for your Tablet PC (optional)	**41**
Security functions	**59**
Connecting external devices	**62**
Settings in BIOS Setup Utility	**65**
Troubleshooting and tips	**66**
Technical data	**73**
Manufacturer's notes	**76**
Index	**83**

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Contents

Innovative technology **7**
Further information 7
Notational conventions 8

Ports and controls **9**

Important notes **12**
Safety notes 12
Additional safety notes for devices with radio components 12
Protecting the display screen 13
Energy saving 13
Energy saving under Windows 13
Travelling with your Tablet PC 14
Before you travel 14
Transporting the Tablet PC 14
Splashproof/dustproof 15
Cleaning the Tablet PC 16
Further information on cleaning the Tablet PC 16
Cleaning with disinfectant wipes 16

First-time setup of your device **17**
Unpacking and checking the device 17
Selecting a location 18
Mains adapter connecting 18
Switching on the device for the first time 19

Working with the Tablet PC **20**
Battery charging indicator 20
Switching on the Tablet PC 21
Programming the ON/OFF switch 21
Switching the Tablet PC off 21
Handwriting recognition 22
Touchscreen 23
Select display orientation (portrait or landscape orientation) 24
Using fingers 24
Actions with one finger (Windows 8.1 Modern) 25
Actions with one finger (Windows 8.1 Desktop) 27
Actions with two fingers (Windows 8.1 Desktop) 28
Tablet buttons 30
Webcam 30
Rechargeable battery 31
Charging, caring for and maintaining the battery 31
Removing and installing the battery 31
Using the power-management features 35
Memory cards 35
Supported formats 35
Inserting the memory card 36
Removing the memory card 37
SIM card (optional) 38
Inserting the SIM card 38
Removing the SIM card 38
Wireless LAN / Bluetooth / LTE (optional) / NFC radio components 39

Switching the wireless components on and off ... 39
Setting up WLAN access ... 39
NFC (Near Field Communication) ... 39
Access via LTE (optional) ... 39
Ethernet and LAN (only multifunctional cradle) ... 40
GPS ... 40

Accessories for your Tablet PC (optional) ... 41
Your multifunctional cradle / your charging cradle (optional) ... 42
Cradle components ... 42
Setting up the cradle ... 43
Adapter for the cradle ... 44
Connecting the Tablet PC to the cradle ... 45
Disconnecting the Tablet PC from the cradle ... 46
Smart Shell with holder for chip card reader (optional) ... 47
Smart Shell with magnetic strip reader (optional) ... 49
Smart Shell with SmartCard reader (optional) ... 51
Rugged frame (optional) ... 53
Hand strap (optional) ... 55
Shoulder strap (optional) ... 57

Security functions ... 59
Using the security lock (optional) ... 59
Configuring password protection in BIOS Setup Utility ... 60
SmartCard reader (optional) ... 60
Installing the SmartCard reader ... 60
Inserting the SmartCard ... 61

Connecting external devices ... 62
Connecting an external monitor ... 62
HDMI port (multifunctional cradle only) ... 62
Connecting USB devices (Tablet PC or multifunctional cradle) ... 63
How to remove USB devices correctly ... 63
Headphone port ... 64

Settings in BIOS Setup Utility ... 65
Starting the BIOS Setup Utility ... 65

Troubleshooting and tips ... 66
Forced shut down ... 66
Help if problems occur ... 67
The Tablet PC’s date or time is incorrect ... 67
Battery indicator does not illuminate ... 67
The Tablet PC’s touchscreen remains dark ... 67
The display on the Tablet PC’s touchscreen is difficult to read. ... 68
The external monitor remains blank ... 68
The external monitor is blank or the image is unstable ... 68
The Tablet PC does not start after switch on ... 69
The Tablet PC stops working ... 69
The printer does not print ... 69
The radio connection to a network does not work ... 70
The battery discharges too quickly ... 70
SmartCard reader is not recognised. ... 70
SmartCard PIN forgotten ... 70

User and/or supervisor SmartCard lost ... 71
SmartCard lost ... 71
Error messages on the screen ... 72

Technical data ... 73
Tablet PC ... 73
Rechargeable battery ... 74
Mains adapter ... 74
Mains adapter only for the Tablet PC (10 W) ... 74
Mains adapter for operation with the multifunctional or charging cradle (60 W, optional) ... 74
Multifunctional cradle (optional) ... 75
Smart Shell with magnetic strip reader (optional) ... 75
Smart Shell with SmartCard reader (optional) ... 75
Rugged frame (optional) ... 75

Manufacturer's notes ... 76
Disposal and recycling ... 76
Declarations of Conformity ... 76
CE marking ... 76
Other certification markings ... 77
Regulatory notices ... 77
Regulatory information for Tablet PCs without radio device ... 77
DOC (Industry CANADA) notices ... 78
FCC Regulatory information for Tablet PCs with radio device ... 80

Index ... 83

Innovative technology

... and ergonomic design make your device a reliable and convenient companion.

The device boots very quickly, is ready for immediate use and offers a particularly long operating time because of its high capacity battery.

The user-friendly "BIOS Setup Utility" offers powerful password protection functions which can be used to control your Tablet PC's hardware and protect your system better against unauthorised use.

Information on the connections and controls for your Tablet PC can be found in chapter "Ports and controls", Page 9.

Further information

The Windows drivers for your device can be found on our Internet site. The factory installation of your device does not support any other operating system. Fujitsu Technology Solutions accepts no liability whatsoever if any other operating system is used.

Software oriented components of these instructions refer to Microsoft products, if they come within the scope of the delivery.

If you install other software products, pay attention to the operating instructions of the manufacturer.

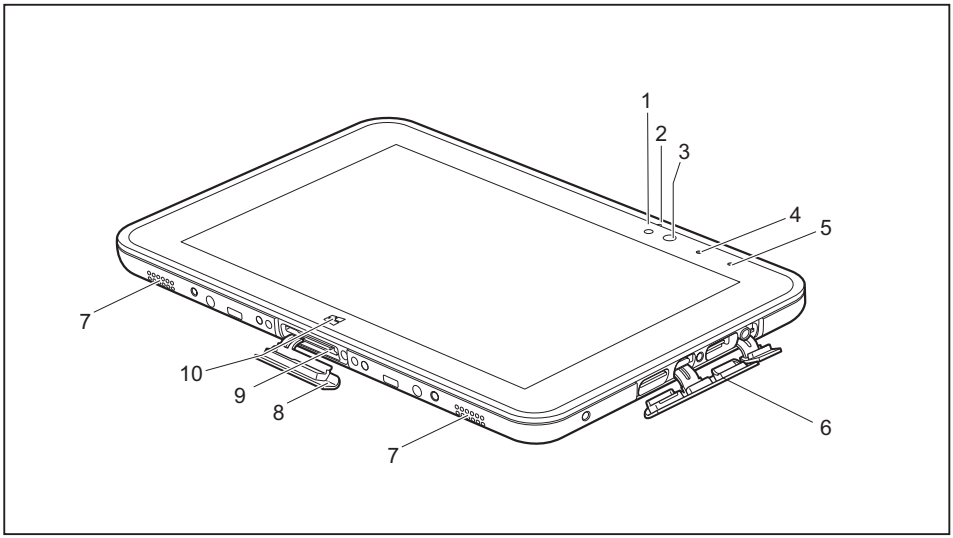
Notational conventions

	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
`This font`	indicates data entered using the keyboard in a program dialogue or at the command line, e.g. your password (**`Name123`**) or a command used to start a program (**`start.exe`**)
`This font`	indicates information that is displayed on the screen by a program, e.g.: `Installation is complete.`
This font	indicates • terms and texts used in a software interface, e.g.: Click on *Save* • names of programs or files, e.g. *Windows* or *setup.exe*.
"This font"	indicates • 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 "http://www.fujitsu.com/fts/" • Names of CDs, DVDs and titles or designations for other materials, e.g.: "CD/DVD Drivers & Utilities" or "Safety/Regulations" manual
Key	indicates a key on the keyboard, e.g: F10
This font	indicates terms and texts that are emphasised or highlighted, e.g.: **Do not switch off the device**

Ports and controls

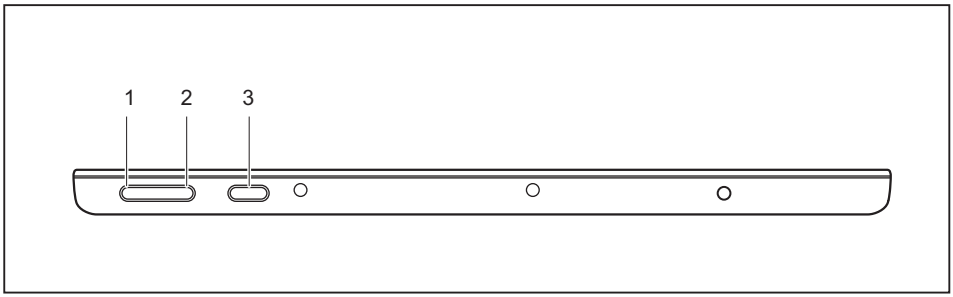
This chapter presents the individual hardware components of your device. It gives you an overview of the device's indicators and connections. Please familiarise yourself with these components before you start to work with the device.

Front



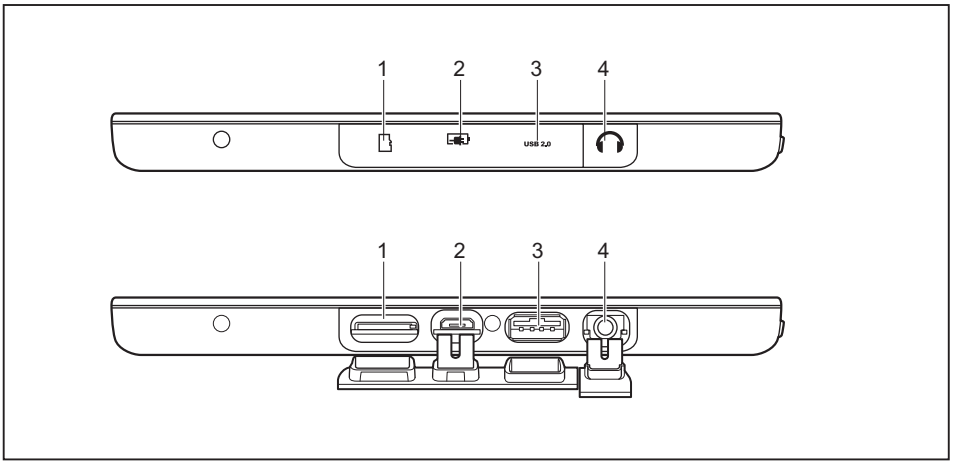
1 = Ambient light sensor
2 = Microphone
3 = Webcam
4 = WebCam LED
5 = Battery charging indicator
6 = Port cover
7 = Loudspeaker
8 = Docking port cover
9 = Docking port for cradle
10 = Windows key

At the top on the device



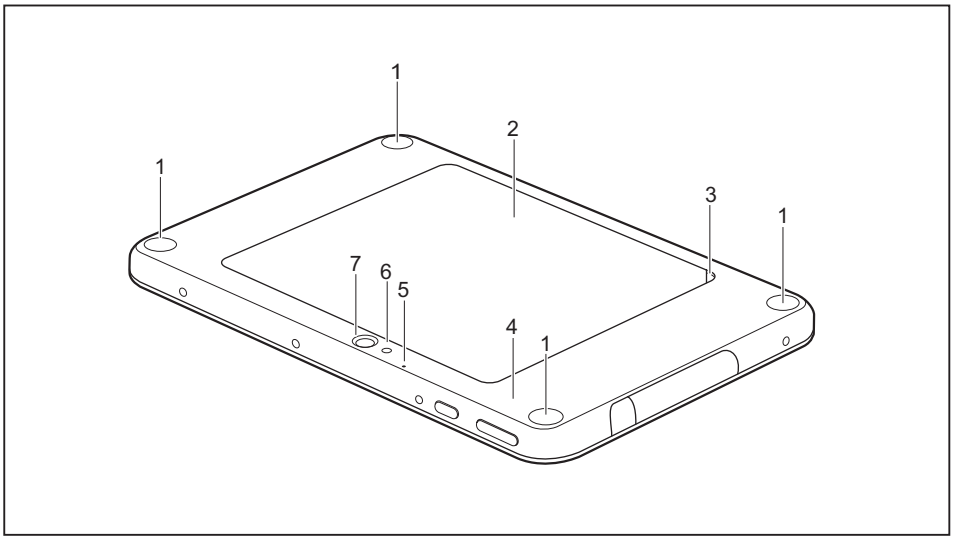
1 = Increase volume button
2 = Decrease volume button
3 = ON/OFF switch

Right side (with closed and open covers)



1 = Memory card slot (micro SD)
2 = Charging port (only for connection of the mains adapter)
3 = USB port (USB 2.0)
4 = Headphone port

Rear



1 = Mounting points (screw holes) for securing hand or shoulder strap

2 = Battery compartment with cover, SIM card slot (optional) under the battery

3 = Opening for easy removal of the battery cover

4 = NFC (Near Field Communication)

5 = Microphone

6 = Camera light

7 = Webcam

Important notes

This chapter contains essential safety information which must be followed when working with your Tablet PC. The other notes provide useful information on your Tablet PC.

Safety notes

Please follow the safety notes provided in the "Safety/Regulations" manual as well as the safety notes given below.

Please pay special attention to 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.

Read the information on the ambient conditions in the "Technical data", Page 73 chapter and the information in the "First-time setup of your device", Page 17 chapter before preparing your Tablet PC for use and switching it on for the first time.

When cleaning the device, please observe the relevant notes in the section "Cleaning the Tablet PC", Page 16.

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

This Tablet PC complies with the relevant safety regulations for data processing equipment. If you have questions as to whether you can set up the Tablet PC in the intended environment, please contact your sales point or our hotline/help desk.

Additional safety notes for devices with radio components

If a radio component (Wireless LAN/ Bluetooth, UMTS/LTE) is integrated in your Tablet PC, you must be sure to observe the following safety precautions when using your Tablet PC:

- Switch off the radio components when you are in an aircraft or driving in a car.
- Switch off the radio components when you are in a hospital, an operating room or near a medical electronics system. The transmitted radio waves can impair the operation of medical devices.
- Switch off the radio components when you let the device get near flammable gases or into hazardous environments (e.g. petrol station, paintshops), as the transmitted radio waves can cause an explosion or a fire.

For information on how to switch radio components on and off, see chapter "Switching the wireless components on and off", Page 39.

Protecting the display screen

Depending on your device configuration, your device may not be waterproof. If this is the case, do not pour liquids on the device, and do not clean it with a wet cloth. Do not place items on the top of the display, or damage may occur.

The warranty does not cover a scratched screen.

Energy saving

If you will not be using your Tablet PC, switch it off. Switch off any connected external devices when they are not in use. If you use the energy saving functions, the Tablet PC uses less power. You will then be able to work for longer before having to recharge the battery.

Power efficiency is increased and environmental pollution reduced. You save money and help protect the environment.

Energy saving under Windows

► Make use of the power management features (see "Using the power-management features", Page 35).

Your tablet PC is equipped with an eMMC memory. Please note that this technology does not support Hibernate mode.

Travelling with your Tablet PC

Please observe the points listed below when travelling with your Tablet PC.

Before you travel

- ► Back up important data stored on your hard disk.
- ► Switch off the radio component for data security reasons. With data traffic via a wireless connection, it is also possible for unauthorised third parties to receive data.

Information on activating data encryption is provided in the documentation for your radio component.

- ► If you wish to use your Tablet PC during a flight, check with the airline whether this is allowed.

When travelling in other countries

- ► If you are travelling abroad, check that the mains adapter can be operated with the local mains voltage. If this is not the case, obtain the appropriate mains adapter for your Tablet PC. Do not use any other voltage converter!
- ► Check whether the local mains voltage and the power cable are compatible. If this is not the case, buy a power cable that matches the local conditions.
- ► Enquire with the corresponding government office of the country you will be travelling in as to whether you may operate the radio component integrated in your Tablet PC there (also see "CE marking", Page 76).

Transporting the Tablet PC

Protect the Tablet PC from severe shocks and extreme temperatures (e.g., direct sunlight in a car).

- ► Switch off the Tablet PC.
- ► Unplug the mains adapter and all external devices from the power socket.
- ► Disconnect the mains adapter cable and the data cables for all external devices.
- ► To protect against damaging jolts and bumps, use a Tablet PC carrying case to transport your Tablet PC.

Splashproof/dustproof

Your Tablet PC is certified according to IP65. However, the slot covers must be securely sealed in the event of contact with water or dust.

It is important to know that your warranty does not cover defects caused by improper use of your device, including use in environments where the relevant IP rating limitations are exceeded.

Protection class IP65 stipulates that the tablet can be operated normally after it has been sprayed with water for at least 3 minutes through an opening of 6.3 mm / 0.25" diameter and a flow rate of 12.5 l water per minute at a distance of approximately 3 m / 118.11".

To make sure that the device remains splashproof and dustproof, all covers of the device must always remain closed. Otherwise, water could penetrate the Tablet PC and cause a malfunction.

If the Tablet PC comes into contact with salt water, soft drinks or mud, it must be wiped off immediately.

Note that accessories may not be splashproof and dustproof.

Cleaning the Tablet PC

Always switch your Tablet PC off for cleaning.

Your Tablet PC is protected against splash water and dust, but you should nonetheless prevent water or dirt from penetrating the Tablet PC and prevent accessories from becoming wet or dusty.

The mains adapter, cradle and other accessories are neither waterproof nor dustproof. Do not use them in a bathroom, in a very moist environment or in places where it may rain.

Only use cleaning products designed for computers. Conventional household cleaners and polishes can damage the lettering on the Tablet PC, the paint or the Tablet PC itself.

Only clean the display surface with a very soft, slightly damp cloth. Rough rubbing with a dry cloth can damage the screen. Residual water drops or dirt on the screen can cause spots.

If the Tablet PC is cleaned with alcohol, thinners, petrol or solvent, the lettering may become illegible and the paint may blister.

The casing surfaces can be cleaned with a dry cloth. If the Tablet PC is particularly dirty, use a damp cloth soaked in water with a mild cleaning agent, and well wrung out.

Do not clean the recesses directly with cotton buds.

Further information on cleaning the Tablet PC

The Tablet PC does not float.

If the Tablet PC is exposed to water or other liquids with its connections open, liquid can penetrate the Tablet PC and cause a malfunction. Do not continue to use the Tablet PC. Switch it off and contact our hotline/our service desk (see enclosed list of service desks or go to our website at: "http://support.ts.fujitsu.com/contact/servicedesk").

Cleaning with disinfectant wipes

For proper use of the disinfectant wipes, please also read the manufacturer's instructions.

Before use, please test the disinfectant wipe on a small area of the Tablet PC. Some medical disinfectant wipes may leave residue on the Tablet PC which is difficult to remove again, or dry out quickly. Therefore dispose of the wipes after one use and do not reuse them.

First-time setup of your device

Please read the chapter "Important notes", Page 12.

If your device is equipped with a Windows operating system, the necessary hardware drivers and supplied software are already pre-installed.

Before you switch on the device for the first time, connect it to the mains voltage using the mains adapter, see "Mains adapter connecting", Page 18. The mains adapter must be connected during the entire installation process.

A system test is performed when your device is first switched on. Various messages can appear. The display may remain dark for a short time or may flicker.

Please follow the instructions on the screen.

NEVER switch off your device during the first-time setup process.

On delivery, the battery can be found in the battery compartment or in the accessories kit. The battery must be charged if you want to operate your device using the battery.

When used on the move, the built-in battery provides the device with the necessary power. You can increase the operating time by using the available energy-saving functions.

For instructions on how to connect external devices (e.g. mouse, printer) to your Tablet PC, please refer to the operating manual for your device.

Unpacking and checking the device

Should you discover any damage that occurred during transportation, notify your local sales outlet immediately!

- ► Unpack all the individual parts.
- ► Check your device for any visible damage which may have occurred during transportation.

You may need the packaging in the future, if you need to transport your device.

Selecting a location

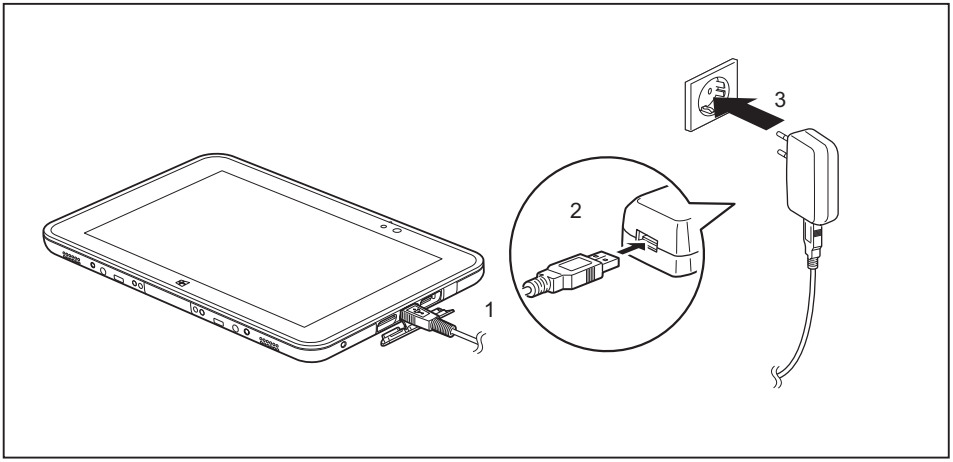
Select a suitable location for the device before setting it up. Follow the instructions below when doing so:

- Never place the device or the mains adapter on a heat-sensitive surface. The surface could be damaged as a result.
- Never place the device on a soft surface (e.g. carpeting, upholstered furniture, bed). This can result in damage caused by overheating.
- The underside of the device heats up during normal operation. Prolonged contact with the skin may become unpleasant or even result in burns.
- Place the device on a stable, flat, non-slippery surface. Please note that the rubber feet of the device may mark certain types of delicate surfaces.
- Keep other objects at least 100 mm / 3.97" away from the device and its mains adapter to ensure adequate ventilation.
- Do not expose the device to extreme environmental conditions. Protect the device against dust, moisture and heat.

Mains adapter connecting

Observe the safety notes in the enclosed "Safety/Regulations" manual.

The supplied power cable conforms to the requirements of the country in which you purchased your device. Make sure that the power cable is approved for use in the country in which you intend to use it.



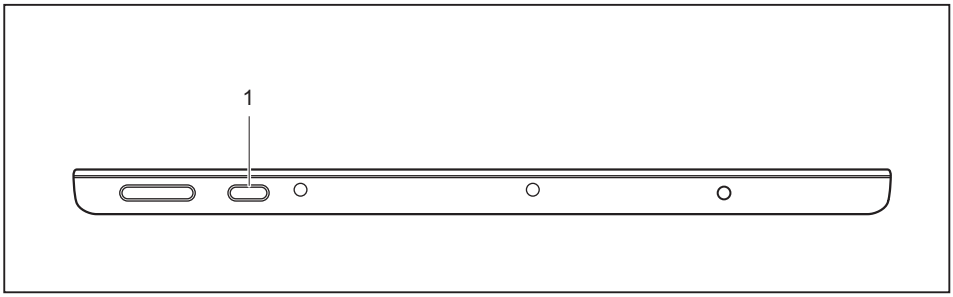
► Open the cover of the charging port as shown.
► Connect the charging connector of the power supply cable (1) to the Tablet PC.
► Connect the connector of the power supply cable (2) to the mains adapter.
► Plug the mains adapter into the mains socket (3).

Switching on the device for the first time

When you switch on the device for the first time, the supplied software is installed and configured. Because this procedure must not be interrupted, you should set aside enough time for it to be fully completed and connect the device to the mains using the mains adapter.

During the installation process, DO NOT restart the device unless you are requested to do so!

To make it easier to use your device for the first time, the operating system is pre-installed on the hard disk.



- ► Press the ON/OFF button (1) for about one second to switch the device on.
- ► During installation, follow the instructions on screen.

If a Windows operating system is installed on your device, you will find more information on the system and drivers, help programmes, updates, manuals etc. on the device. This information can also be found on the Internet at "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".

If a Windows 8.1 operating system is installed on your Tablet PC, a tutorial is automatically started when a new user logs on for the first time, which shows you how to use the new functions of Windows 8.1.

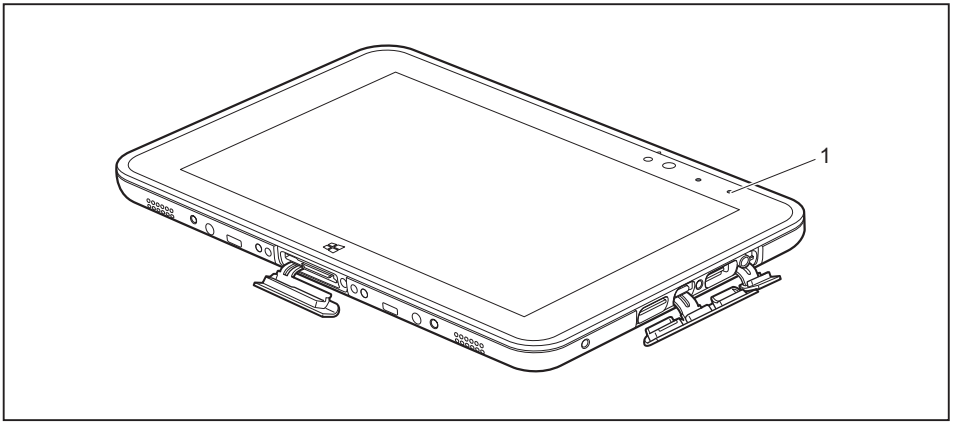
Working with the Tablet PC

This chapter describes the basics for operating your Tablet PC. You can find instructions on how to connect external devices (e.g. mouse, flash memory) to the Tablet PC in the chapter "Connecting external devices", Page 62.

Please refer to the notes in "Important notes", Page 12.

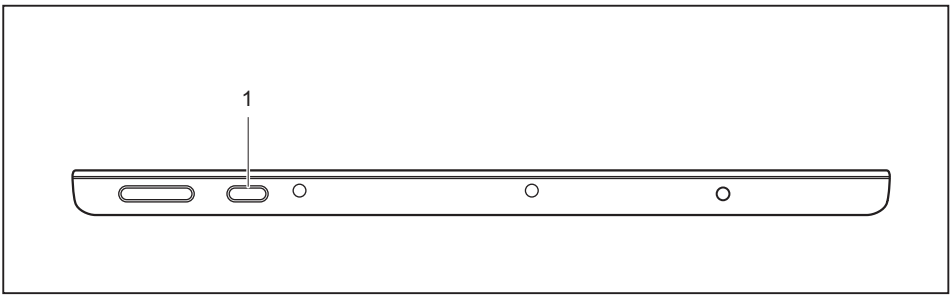
Battery charging indicator

The battery charging indicator (1) provides information on the status of the power supply.



Status / colour	Description
Off	The Tablet PC is not connected to the mains voltage.
Green	The battery is fully charged, the Tablet PC is connected to the mains voltage.
Orange	The battery is being charged.
Red	A fault has occurred. The battery cannot be charged.

Switching on the Tablet PC



► Press the ON/OFF button (1) for about one second to switch the device on.

Programming the ON/OFF switch

You can program the ON/OFF switch:

Operating system	Menu
Windows 8.1	*Windows 8.1 Desktop - Control Panel - Hardware and Sound - Power Options*

If you have assigned a password, you must enter this when requested to do so, in order to start the operating system. Detailed information can be found in the chapter "Security functions", Page 59.

Switching the Tablet PC off

Back up your data and close all applications before you switch off your device. Otherwise data might be lost.

► Shut down the operating system correctly.

or

► To change to connected standby mode, press the ON/OFF button for < 2 seconds.

or

► To display the popup "Wipe downwards to switch off", press the ON/OFF button for > 2 seconds to < 10 seconds.

or

► If the Tablet PC does not switch off automatically, press the ON/OFF button for about 10 seconds (forced shutdown).

Handwriting recognition

For detailed information on handwriting recognition, see the documentation on your operating system.

Under Windows 8.1 you can set the required language under *Control Panel – Time, Language and Region – Language*.

Touchscreen

High-quality LCD screens (TFT) are installed in Fujitsu Tablet PCs. For technical reasons, these screens are manufactured for a certain resolution. An optimum and sharp image can only be ensured with the resolution intended for the particular screen. A screen resolution which differs from the specification can result in an unclear image.

The screen resolution of your Tablet PC's touchscreen is optimally set at the factory.

Current production technology cannot guarantee an absolutely fault-free screen display. A few isolated constantly lit or unlit pixels (picture elements) may be present. The maximum permitted number of faulty pixels is stipulated in the international standard ISO 9241-307 (Class 2).

Example:

A screen with a resolution of 1280 x 800 has 1280 x 800 = 1024000 pixels. Each pixel consists of three subpixels (red, green and blue), so there are almost 3 million subpixels in total. According to ISO 9241-307 (class 2), a maximum of 2 light and 2 dark pixels and in addition 5 light or 10 dark subpixels or an equivalent mix (1 light subpixel counts as 2 dark subpixels) are allowed to be defective.

Pixel	A pixel consists of 3 subpixels, normally red, green and blue. A pixel is the smallest element that can be generated by complete functionality of the display.
Subpixel	A subpixel is a separately addressable internal structure within a pixel that enhances the pixel function.
Cluster	A cluster contains two or more defective pixels or subpixels in a 5 x 5 pixel block.

Background lighting

LCD screens are operated with background lighting. The luminosity of the background lighting can decrease over the period of use of the Tablet PC. However, you can set the brightness of your screen individually.

Ambient light sensor

If your Tablet PC was shipped with the *Windows* operating system, the screen brightness is regulated by the ambient light sensor according to the particular light conditions. This results in optimum readability and longer battery life at the same time.

If your Tablet PC was shipped with Windows 8.1, the adaptive brightness setting is disabled. To change the ambient light sensor settings, select *Control Panel - System and Security - Power Options - Change plan settings - Change advanced power settings - Display - Activate adaptive brightness setting.*.

Select *On* to activate the adaptive brightness setting with the help of the ambient light sensor.

Synchronising the display on the touchscreen and an external monitor

In Windows 8.1 wipe your finger over the screen from the right-hand edge. The setting *Charms - Devices - Second screen* opens. Select the desired output type.

Select display orientation (portrait or landscape orientation)

You can choose to use either portrait or landscape orientation for the display.

Windows 8.1

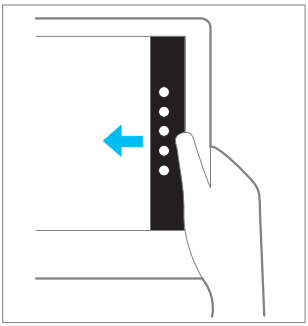
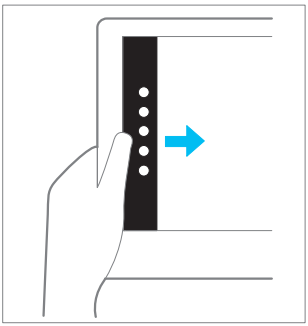
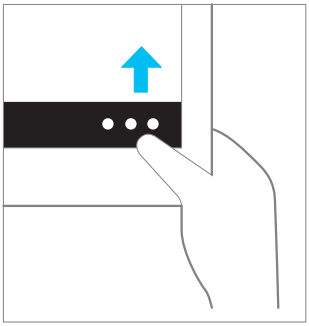
You can change these settings under *Windows 8.1 Desktop - Control Panel - Hardware and Sound - Windows Mobility Center / Rotate screen*.

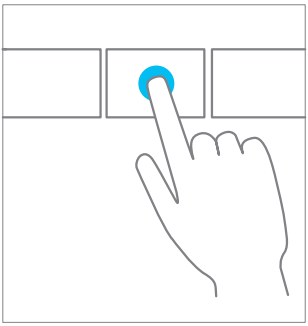
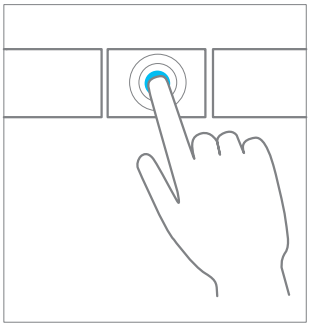
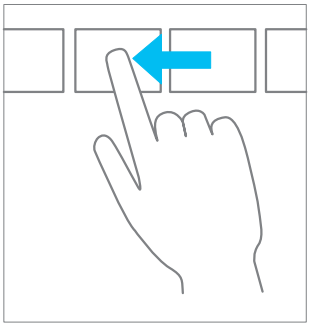
To disable the automatic change between portrait and landscape formats, select *Control Panel – Appearance and Personalization – Display – Screen resolution*.

Using fingers

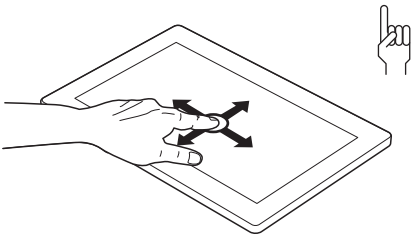
You can execute certain commands by using your finger tip on the touchscreen of your device.

Actions with one finger (Windows 8.1 Modern)

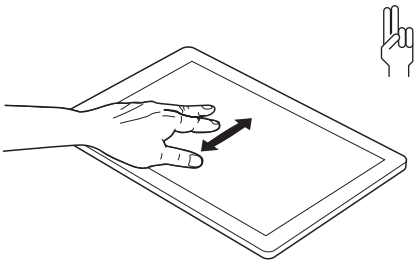
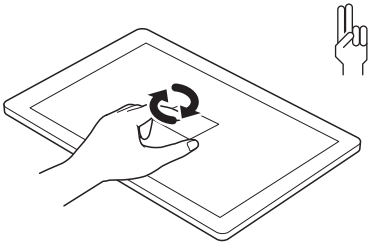
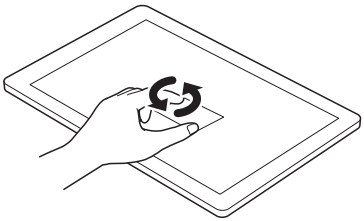
Action	Description
Wipe your finger over the screen from the right-hand edge. 	► Open the Charms with system commands (equivalent to pressing the Windows button + C button). ► Working with the mouse: Position the mouse pointer at the bottom right-hand edge of the screen.
Wipe your finger over the screen from the left-hand edge. 	► Switch between the most recently used applications (equivalent to pressing the Windows button + Ctrl + Space). ► Working with the mouse: Position the mouse pointer at the bottom left-hand edge of the screen.
Wipe your finger over the screen from the top or bottom edge. 	► Open the App commands (equivalent to pressing the Windows button + Z button). Wipe from the top to the bottom of the screen to dock or connect the current App. ► Working with the mouse: Right-click on the App to display the App commands.

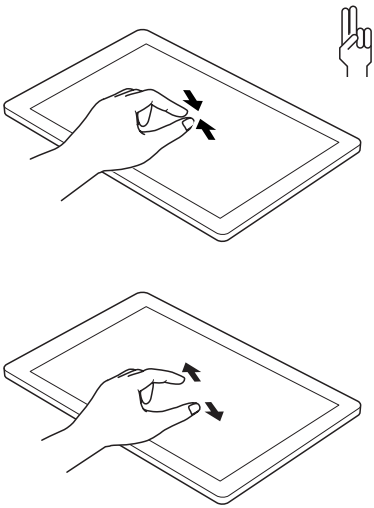
Action	Description
Press and hold 	► Keep your finger pressed on an object on the screen to display a menu with further options. ► Working with the mouse: Move the mouse pointer over the object to display a menu with further options.
Tap on an object 	► Tap your finger on an object on the screen to open an App or a link or to execute a command. ► Working with the mouse: Left-click on the object.
Scroll / Move object / Swivel object 	► Use this function to scroll through lists or websites or to swivel or move an object. ► Working with the mouse: Left-click on the object, keep the mouse button pressed and move / swivel the object or scroll.

Actions with one finger (Windows 8.1 Desktop)

Action	Description
Selecting objects (click with the left mouse button)	► With your finger, tap once briefly on the object.
Starting programs (double-click with the left mouse button)	► With your finger, tap twice briefly in quick succssion on the program icon.
Moving objects/windows (drag with left mouse button pressed, Drag & Drop)	 ► Place your finger on the object/window, keep your fingertip pressed against the touchscreen and move the desired object/window.
Opening a context menu (click with the right mouse button)	► Tap your finger on the desired item. Keep your fingertip pressed against the touchscreen. The context menu appears.
Moving the cursor	► Position one finger on the touchscreen and move your fingers in the desired direction.

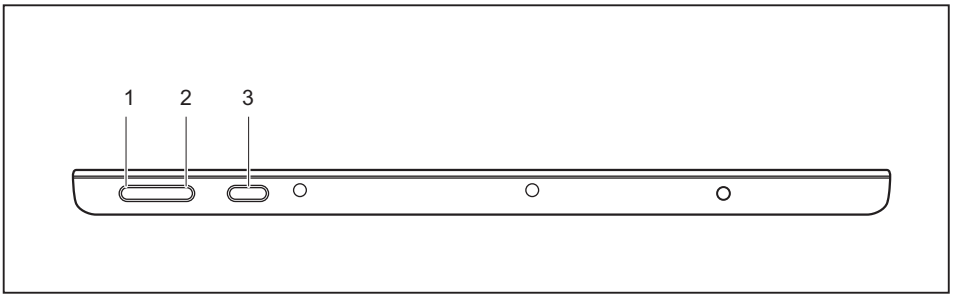
Actions with two fingers (Windows 8.1 Desktop)

Action	Description
Scrolling	 ► Position two fingers on the touchscreen. ► Move your fingers upwards to scroll up. or ► Move your fingers downwards to scroll down.
Rotating	  ► Position your thumb on the touchscreen and rotate the image clockwise or anticlockwise using your index finger.

Action	Description
Enlarge or reduce the view (zoom)	 ► Position two fingers on the touchscreen and move them apart to increase the view. or ► Place two fingers on the touch screen and move them together to reduce the view / zoom.
Blocking context-sensitive menus	► With two fingers, tap twice briefly in quick succession on the touchscreen.

Tablet buttons

Your Tablet PC is equipped with three tablet buttons.



No.	Description	Functions
1	Increase volume button	Increase the volume
2	Decrease volume button	Decrease the volume
3	ON/OFF switch	Switching the device on and off

Webcam

Your device has two WebCams: one on the front side of the device and one on the rear.

You may not be able to use the rear webcam cannot when a smart shell accessory is mounted.

The WebCam has its own status indicator. The indicator lights up when the WebCam is switched on.

Depending on the software used, you can use your Webcam to take pictures, record video clips or take part in web chats.

- The picture quality depends on the lighting conditions and the software being used.
- You can only operate the webcam with a particular application (e.g. an Internet telephony program or a video conferencing program which supports a webcam).
- When using the webcam the Tablet PC support must not wobble.
- The webcam automatically adjusts itself to the current light level. For this reason the touchscreen may flicker while the light level is adjusted.

Further information on using the webcam and on the additional settings which are possible for your webcam can be found in the help function of the program which uses the webcam.

Rechargeable battery

For mobile use, the built-in battery provides the Tablet PC with the necessary power. You can increase the life of the battery by caring for the battery properly. The average battery life is around 500 charge/discharge cycles.

You can extend the battery life by taking advantage of the available energy saving functions.

Charging, caring for and maintaining the battery

The Tablet PC battery can only be charged when the ambient temperature is between 5°C / 41°F and max. 35°C / 95°F.

You can charge the battery by connecting the Tablet PC to the mains adapter (see "Mains adapter connecting", Page 18).

If the battery is running low you will see a warning message. If you do not connect the mains adapter within a few minutes, your Tablet PC will switch off automatically.

Monitoring the battery charging level

Windows also has a "Battery status meter" in the taskbar, for monitoring the battery status. When you place the mouse pointer on the battery symbol, the system displays the state of charge of the battery.

Battery storage

Store battery packs in a dry environment at a temperature between 0°C / 32°F and 30°C / 86°F. The lower the temperature at which the batteries are stored, the lower the rate of self-discharge.

If you will be storing batteries for a longer period (longer than two months), the battery charge level should be approx. 30 %. To prevent exhaustive discharge which would permanently damage the battery, check the level of charge of the battery at regular intervals.

To be able to make use of the optimal charging capacity of the batteries, the battery should be completely discharged and then fully recharged.

If you do not use the batteries for long periods, remove them from the device. Never store the batteries in the device.

The device cannot be operated without the battery.

Removing and installing the battery

Only use batteries approved by Fujitsu for your tablet PC.

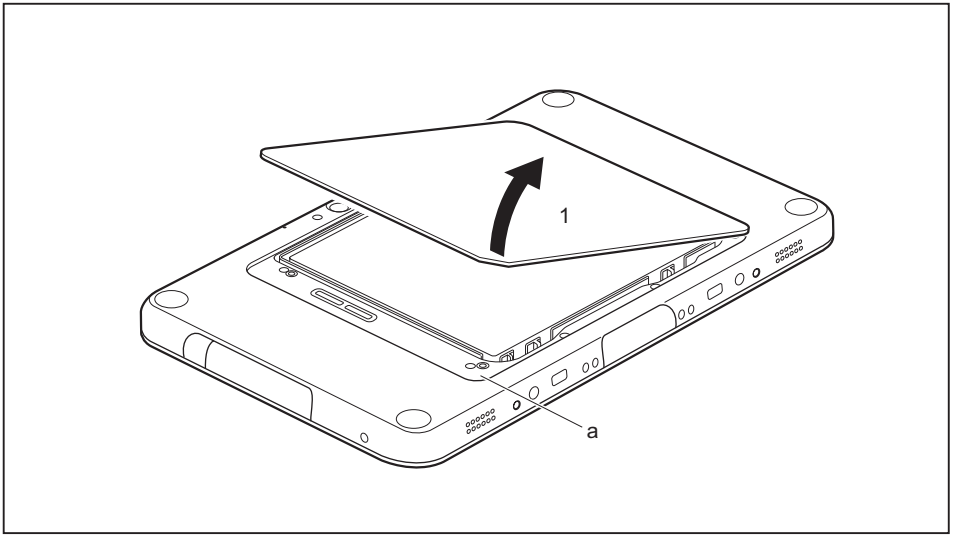
Never use force when fitting or removing a battery.

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

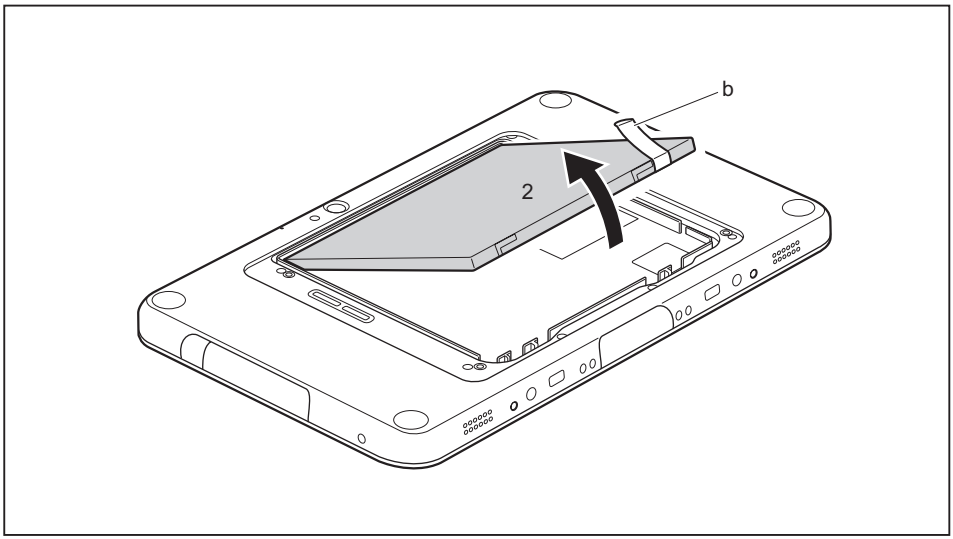
Never store a battery for longer periods in the discharged state. This can make it impossible to recharge.

Removing the battery

► Turn the device over and place it on a stable, flat and clean surface. If necessary, lay an anti-slip cloth on this surface to prevent the device from being scratched.

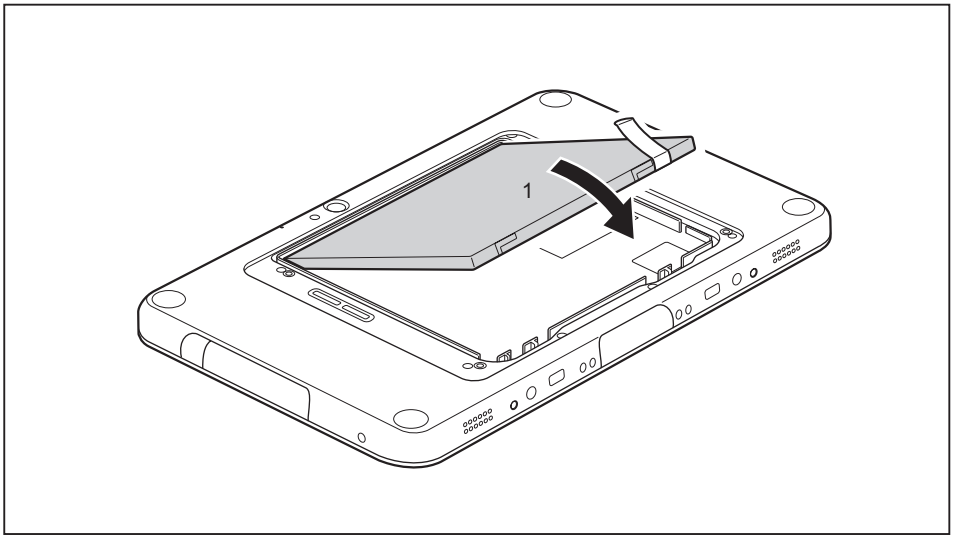


► Reach into the opening (a) with one finger and take off the battery cover in the direction of the arrow (1).

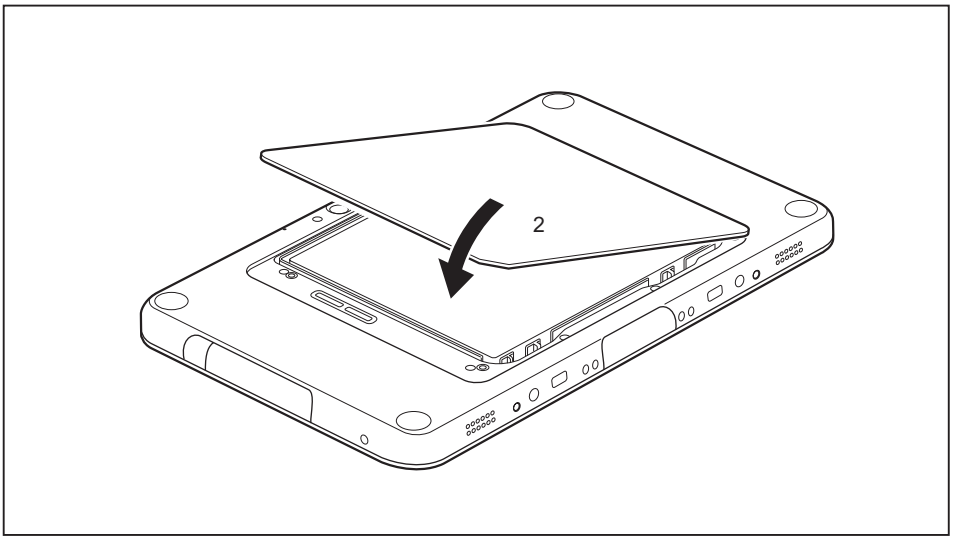


► Pull on the pulling aid (b) and lift the battery out of the battery compartment in the direction of the arrow (2).

Installing the battery



► Position the battery at the edge of the battery compartment and insert the battery in the battery compartment (1).



► Insert the catches of the battery cover into the openings on the device.
► Close the battery compartment cover (2).

Using the power-management features

The Tablet PC uses less power when the power management features are enabled. You will then be able to work longer when using the battery before having to recharge it.

Power efficiency is increased and environmental pollution reduced. By choosing the best power options, you can make significant savings and at the same time help protect the environment.

- ► Select the power management functions in your Control Panel.
- ► Select the Screen Saver in your Control Panel.

or

- ► Keep a finger pressed on the desktop to display the context menu. Configure the screen saver under *Change screen saver*.

If you need further information about an option, you can get help with most settings by pressing the ⓘ symbol in the upper right of the screen to open the Microsoft Help.

If you do not intend to use your Tablet PC for a long period of time:

- ► Exit the power saving mode if necessary via touching the screen or by switching on the Tablet PC.
- ► Close all opened programs and completely shut down the Tablet PC.

Memory cards

Your Tablet PC is equipped with an integrated memory card reader. You can use memory cards to increase the storage of your Tablet PC.

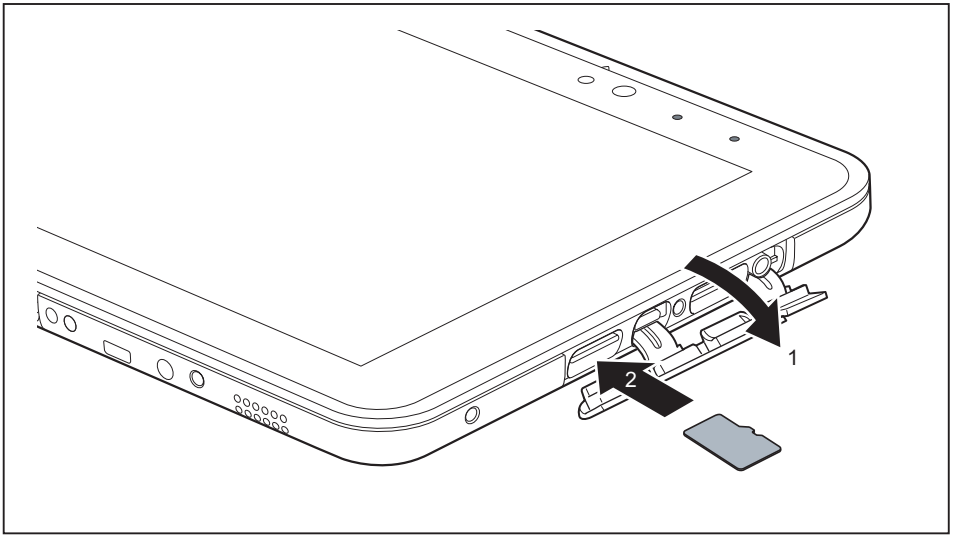
Observe the manufacturer's instructions when handling the memory cards.

Supported formats

It supports the following formats:

- Micro Secure Digital (SD™ Card)
- Micro SDHC
- Micro SDXC

Inserting the memory card

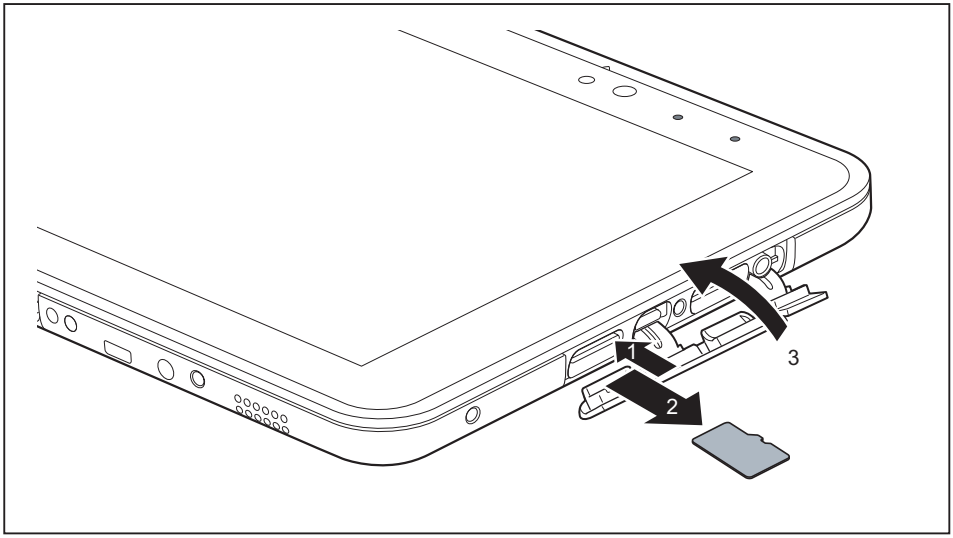


- ► Open the slot cover (1).
- ► Carefully slide the memory card into the slot (2). The label must be facing upward. Do not apply any force, otherwise the delicate contact surfaces could be damaged.
- ► Close the slot cover.

Removing the memory card

To avoid any loss of data, always follow the correct procedure for removing the card (see the documentation for your operating system).

► Open the slot cover.



► Press the edge of the memory card so that the memory card jumps (1) slightly out of the slot.
► Pull the memory card out of the slot in the direction of the arrow (2).
► Close the slot cover (3).

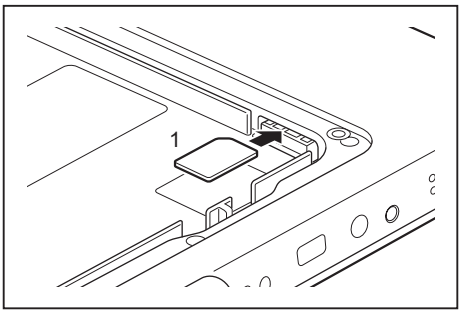
SIM card (optional)

A SIM Card (Subscriber Identity Module) is a chip card which is inserted in a mobile telephone or Tablet PC and, together with an integrated LTE module (optional), enables access to a mobile radio network.

Please follow the instructions supplied by the provider when handling the SIM card. If you do not feel the SIM card engage as you insert it, use a pointed object to insert the SIM card.

Inserting the SIM card

► Remove the battery, see "Removing the battery", Page 32.

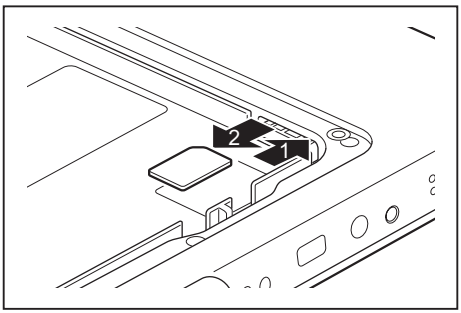


► Insert the SIM card into the slot (1) as shown and with the chip downwards.

► Install the battery again, see "Installing the battery", Page 33.

Removing the SIM card

► Remove the battery, see "Removing the battery", Page 32.



► Press the edge of the SIM card so that the SIM card jumps (1) slightly out of the slot.

► Pull the SIM card out of the slot in the direction of the arrow (2).

► Install the battery again, see "Installing the battery", Page 33.

Wireless LAN / Bluetooth / LTE (optional) / NFC radio components

The installation of radio components not approved by Fujitsu will invalidate the certifications issued for this device.

Switching the wireless components on and off

The radio components are switched on and off via the corresponding functions of the operating system.

► To switch radio components on and off individually, select *Settings – Change PC settings – Network – Airplane mode*.

Setting up WLAN access

- Requirement: A WLAN must be available and you must have the corresponding access information.

Information on configuring the WLAN access can be found in the documentation for your operating system.

NFC (Near Field Communication)

Your Tablet PC is equipped with an integrated NFC chip. Near field communication is used for contact-free data exchange by radio over short distances (a few centimetres).

Access via LTE (optional)

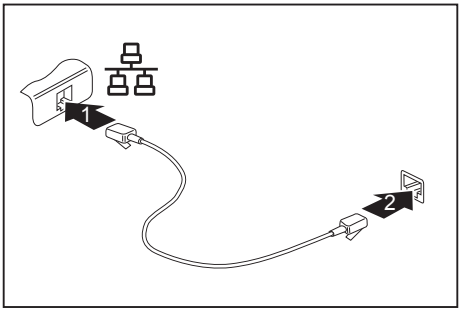
If you ordered an integrated LTE module with your system, you can enjoy optimum reception and maximum energy efficiency without awkward cables or antennas. The optional LTE module is ready for use straight away.

You will find information on establishing the connection with the LTE network in the documentation for the hardware you plan to use.

Your device can connect with the Internet via LTE. To do this, use one of the following types of connection:

- Integrated LTE module (depending on your model variant)
- a USB dongle (a USB stick with your mobile phone provider's SIM card)
- a mobile end-device (e.g. mobile phone with Bluetooth or cable connection)

Ethernet and LAN (only multifunctional cradle)



- ► Connect the network cable to the LAN port of the multifunctional cradle (1).
- ► Connect the network cable to your network connection (2).

Your network administrator can help you to configure and use the LAN connections.

The network cable is not included in the delivery scope. This type of cable can be obtained from a specialist dealer.

GPS

Whether or not your device has this function depends on the selected device expansion stage.

Accessories for your Tablet PC (optional)

The following accessories are available for your Tablet PC:

- Multifunctional cradle (docking station)
- Charging cradle
- Smart Shells can be mounted on the rear of the device. The following types are available as options:
  - Smart Shell with holder for chip card reader
  - Smart Shell with magnetic strip reader
  - Smart Shell with SmartCard reader (also see "SmartCard reader (optional)", Page 60)
- Rugged frame
- Hand strap
- Shoulder strap

The following sections provide more information on handling the accessories.

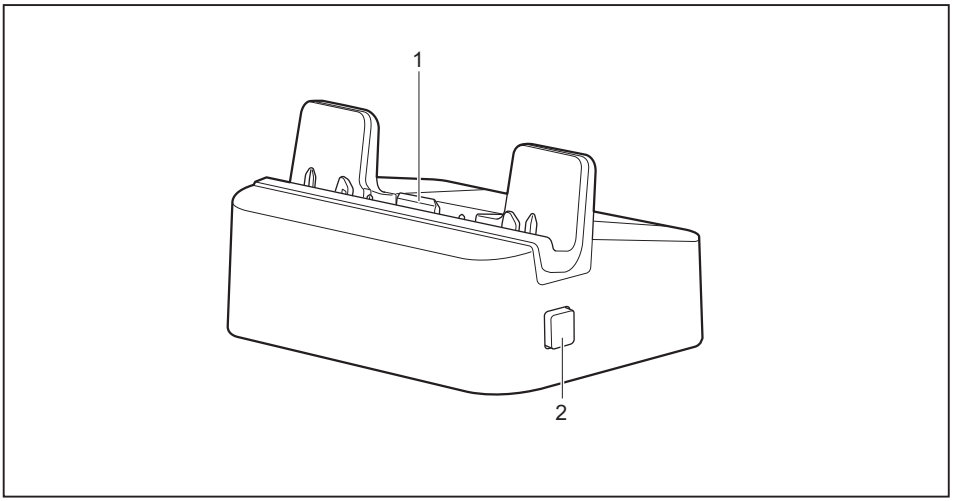
Your multifunctional cradle / your charging cradle (optional)

Your charging cradle is a device with which you can quickly charge your Tablet PC.

As well as providing rapid charging, your multifunctional cradle is a device which helps you to quickly connect your Tablet PC to your peripheral devices, such as a monitor, keyboard, mouse, etc. You only need to dock the Tablet PC in order to work with your peripheral devices.

Cradle components

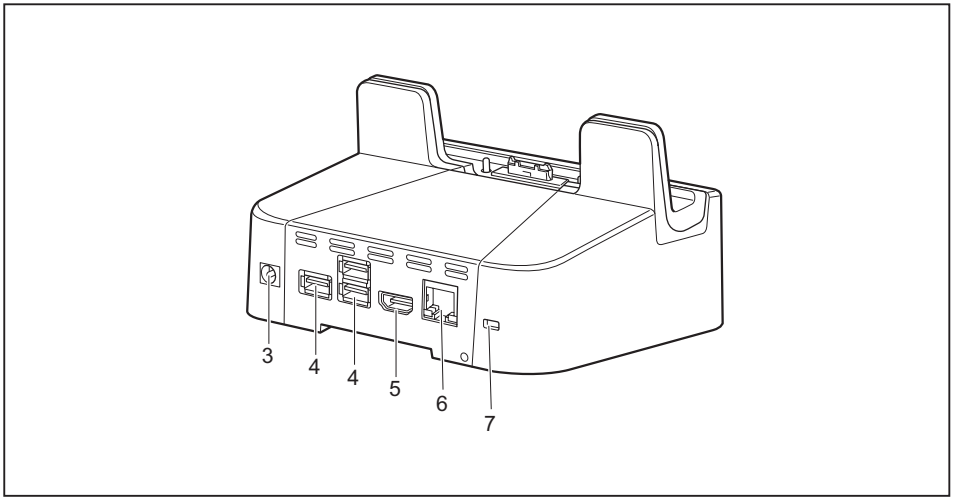
Front



1 = Connector on the cradle for the docking port of the Tablet PC

2 = Release for removal of the docked Tablet PC

Rear



3 = DC input jack (DC IN)
4 = USB 3.0 port (only multifunctional cradle)
5 = HDMI port (only multifunctional cradle)
6 = LAN port (only multifunctional cradle)
7 = Security Lock fixture

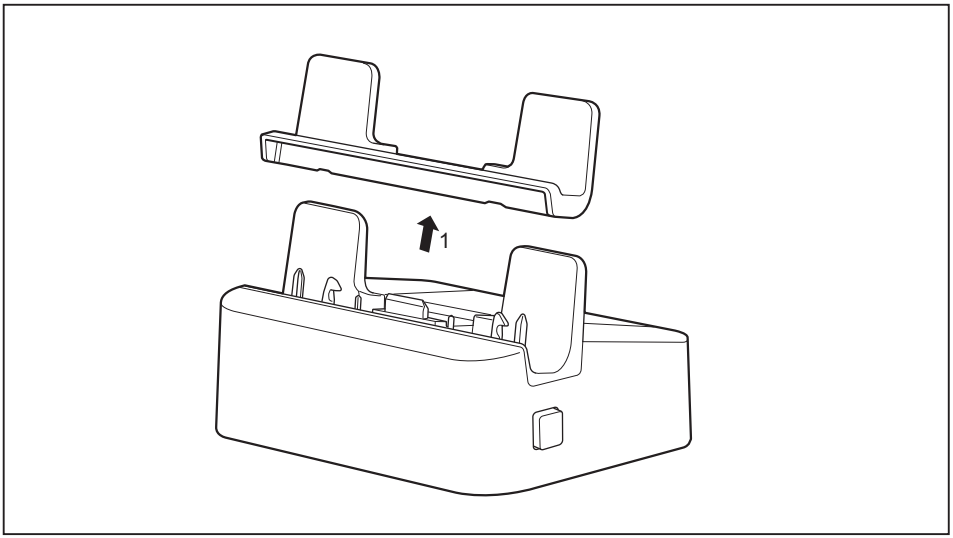
Setting up the cradle

Select a suitable location for the cradle before setting it up. Follow the instructions below when doing so:

- Place the cradle on a flat, stable, nonslippery surface.
- Never place the cradle and the mains adapter on a heat-sensitive surface.
- Do not expose the cradle to extreme environmental conditions.
- Protect the cradle from dust, humidity and heat.

Adapter for the cradle

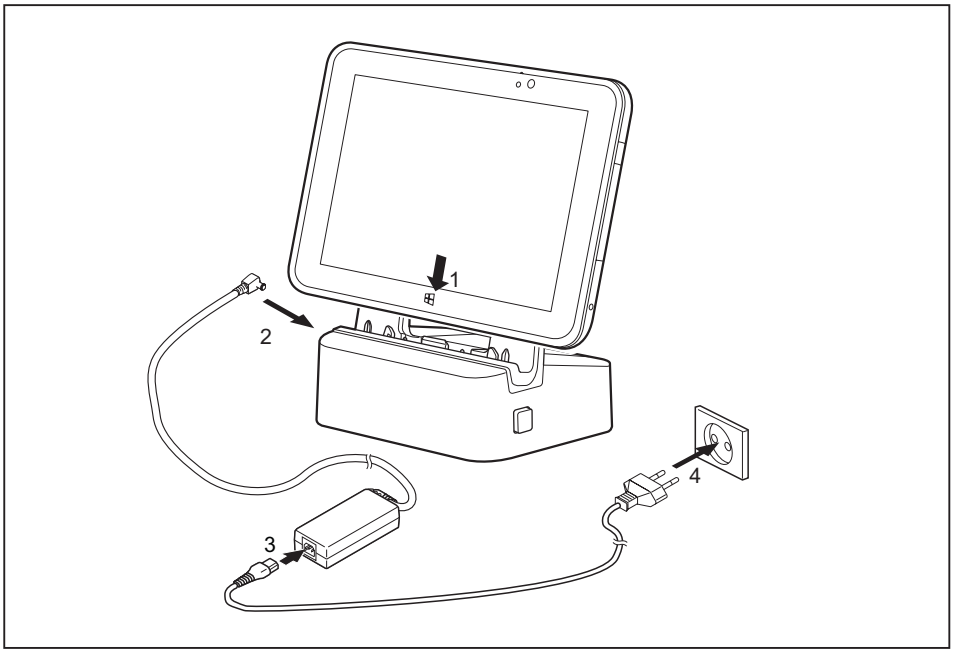
When using the rugged frame (optional), you must first remove the adapter from the cradle before you can connect the Tablet PC in the rugged frame to the cradle.



► Remove the adapter from the cradle (1).

Connecting the Tablet PC to the cradle

If the Tablet PC is connected to the cradle, you must connect the mains adapter to the cradle.

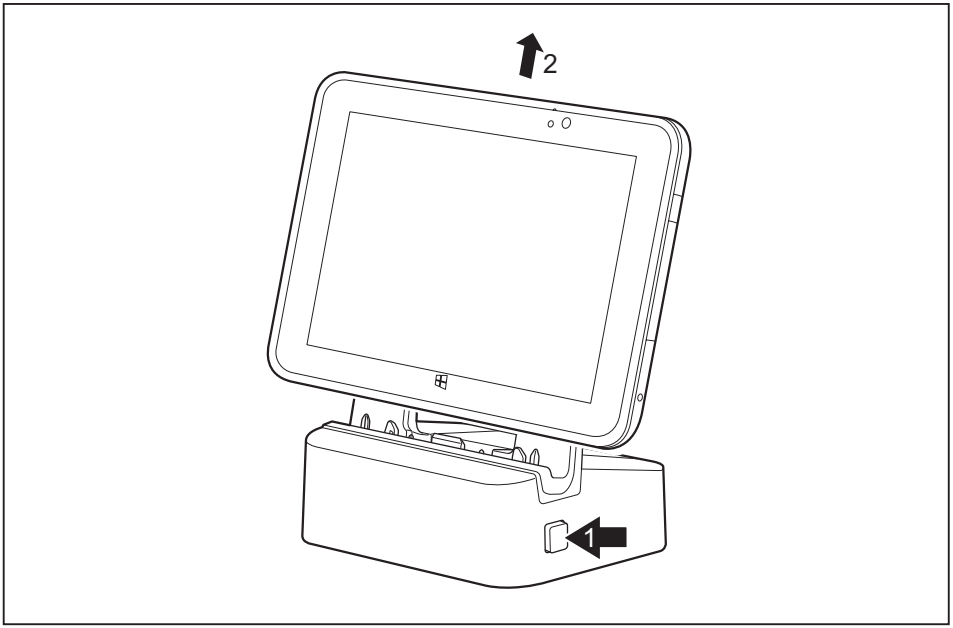


- ► Open the docking port cover on the Tablet PC and keep it slightly pulled back to facilitate the docking process.
- ► Position the Tablet PC so that it lies on the surface of the tray on the cradle.
- ► Press the Tablet PC in the direction of the arrow (1) onto the cradle until you feel it engage on the connector.
- ► Plug the DC output connector on the mains adapter into the DC input connector (DC IN) on the cradle (2).
- ► Connect the power cable to the mains adapter (3).
- ► Plug the power cable into the mains socket (4).

Disconnecting the Tablet PC from the cradle

It is possible to separate the Tablet PC from the cradle during operation. Anyway we recommend that you switch the Tablet PC off first or that you execute the appropriate undocking function provided by the operating system.

► Switch off the Tablet PC.



► Keep the release pressed (1).

► Lift the Tablet PC from the cradle in the direction of the arrow (2), while holding the lower area of the cradle.

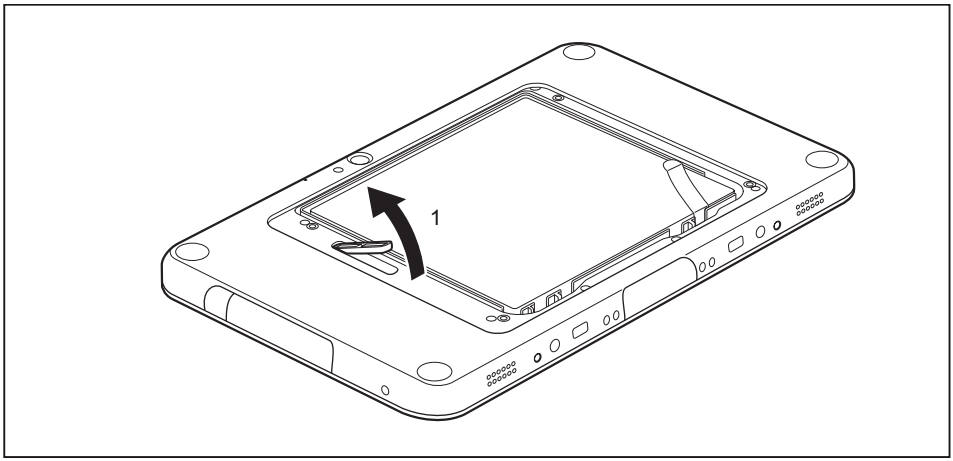
Smart Shell with holder for chip card reader (optional)

The Smart Shell kit with holder for the chip card reader comprises the following components: Smart Shell with holder for chip card reader, 4 screws.

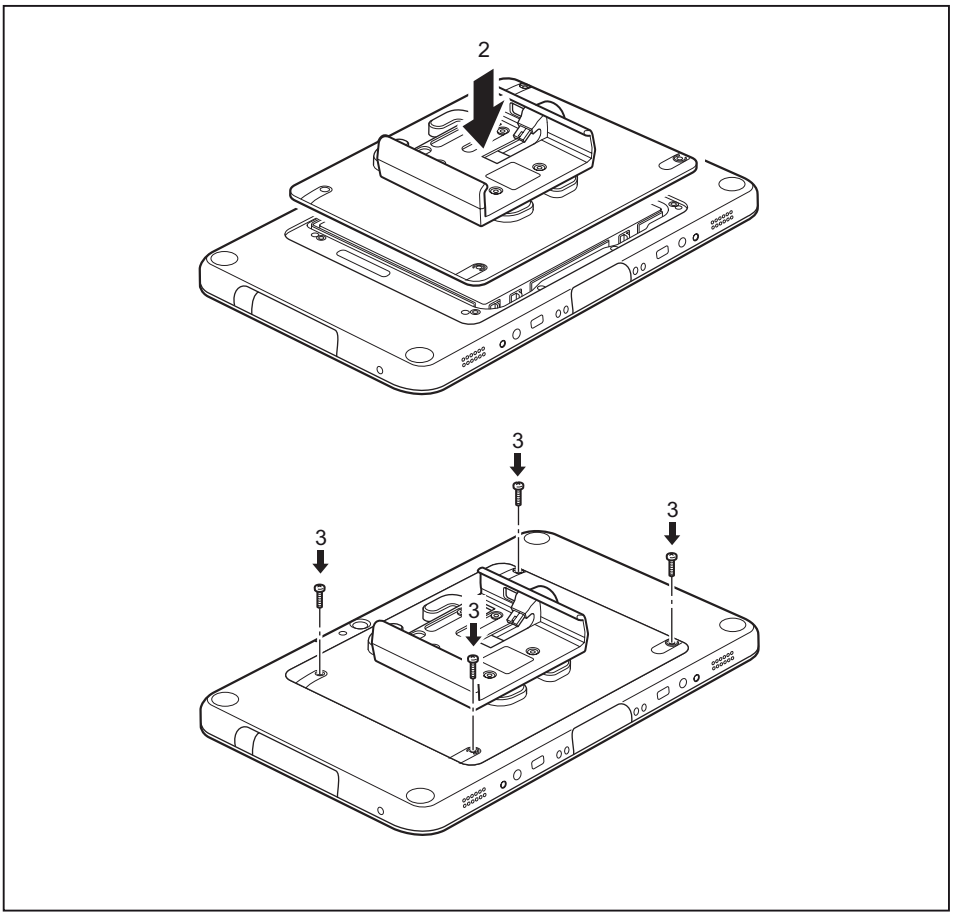
- Use a suitable tool of the correct size when fitting the screws.
- Keep the screws out of the reach of children.

► Remove the battery cover (see "Removing the battery", Page 32).

The battery itself is not removed.



► Remove the cover (1) in the battery compartment.



► Position the Smart Shell on the Tablet PC as shown (2).
► Secure the Smart Shell with the screws (3).

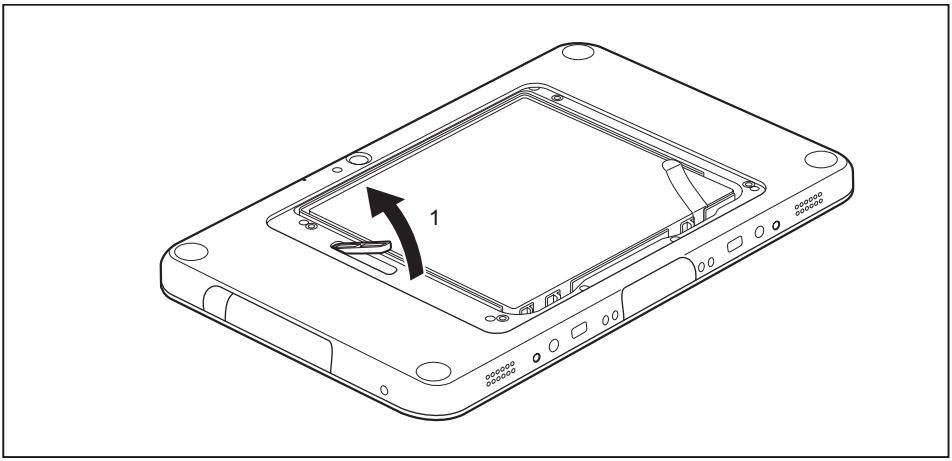
Smart Shell with magnetic strip reader (optional)

The Smart Shell kit with magnetic strip reader comprises the following components: Smart Shell with magnetic strip reader, 2 screws, 2 seals.

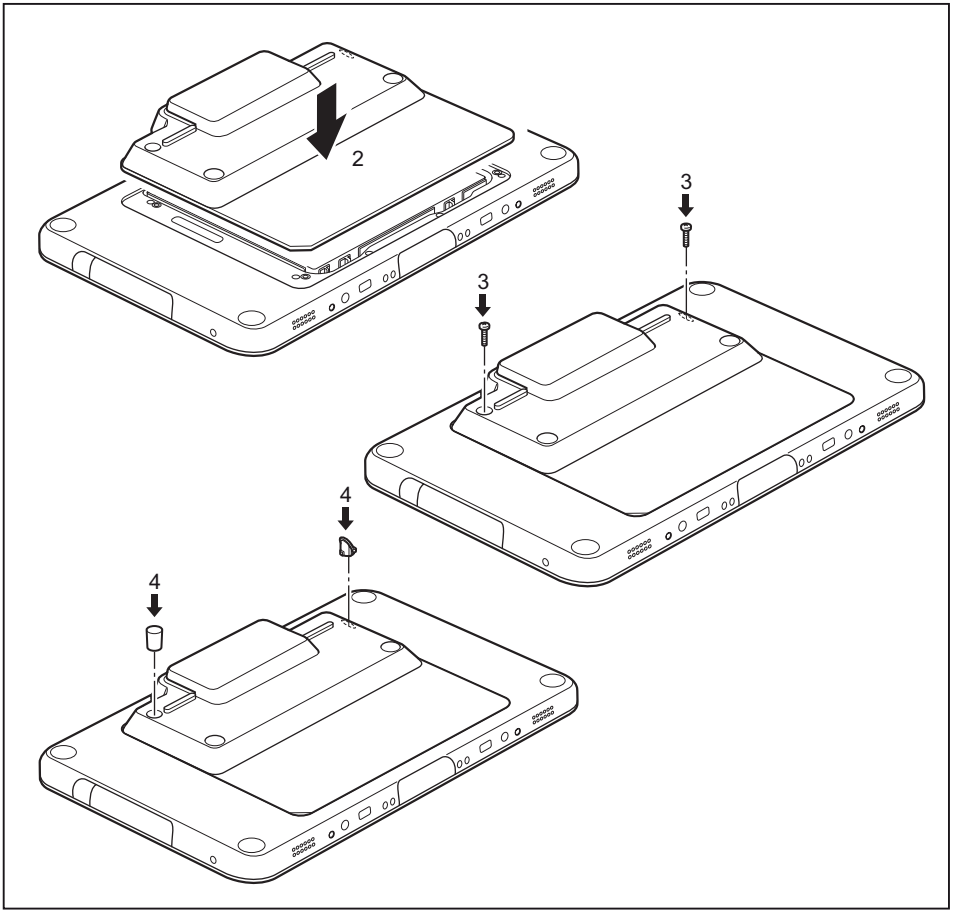
- Use a suitable tool of the correct size when fitting the screws.
- Keep the screws out of the reach of children.

► Remove the battery cover (see "Removing the battery", Page 32).

The battery itself is not removed.



► Remove the cover (1) in the battery compartment.



► Position the Smart Shell on the Tablet PC as shown (2).
► Secure the Smart Shell with the screws (3).
► Secure the seals (4).

Smart Shell with SmartCard reader (optional)

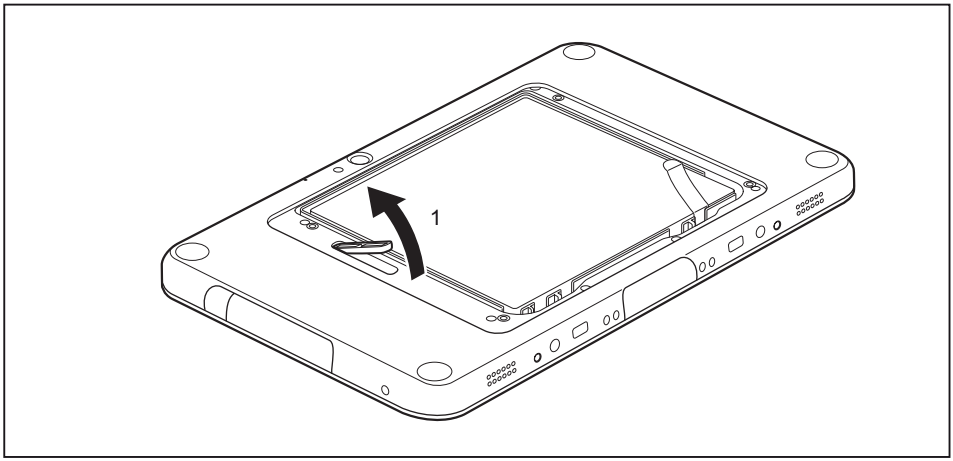
The Smart Shell kit with SmartCard reader comprises the following components: Smart Shell with SmartCard reader, 1 screw, 1 seal.

For information on the security functions of the SmartCard reader, also see "SmartCard reader (optional)", Page 60.

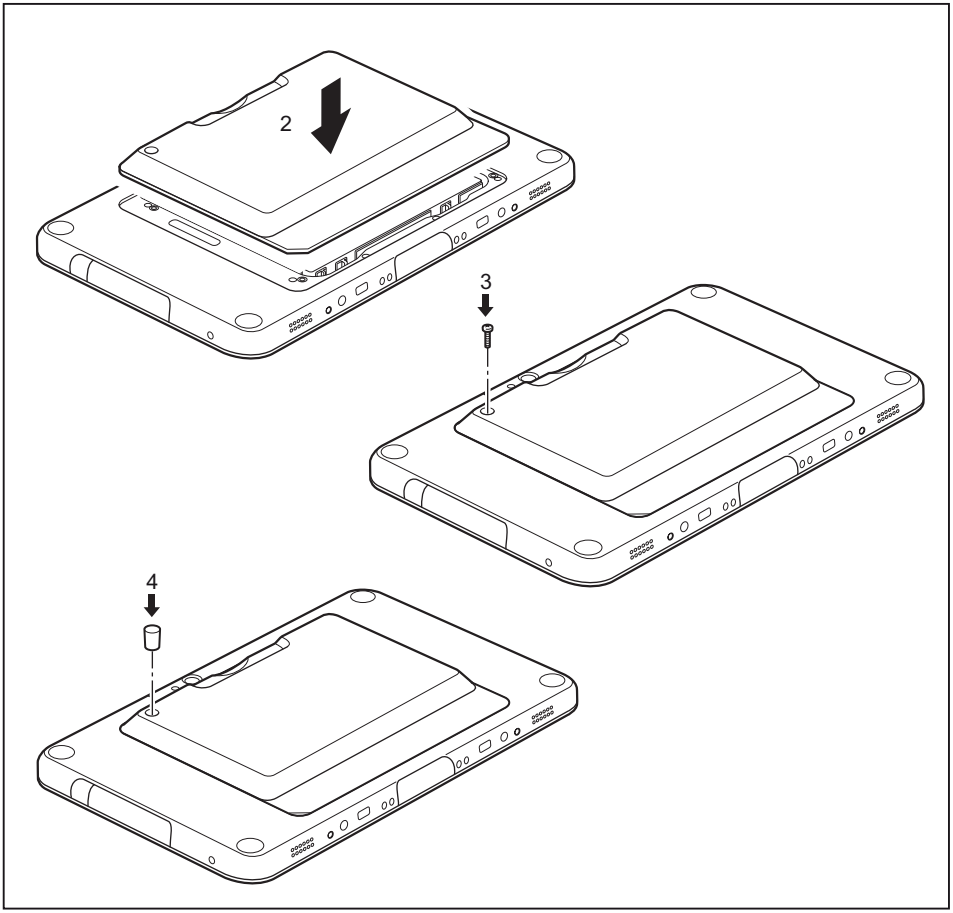
- Use a suitable tool of the correct size when fitting the screws.
- Keep the screws out of the reach of children.

► Remove the battery cover (see "Removing the battery", Page 32).

The battery itself is not removed.



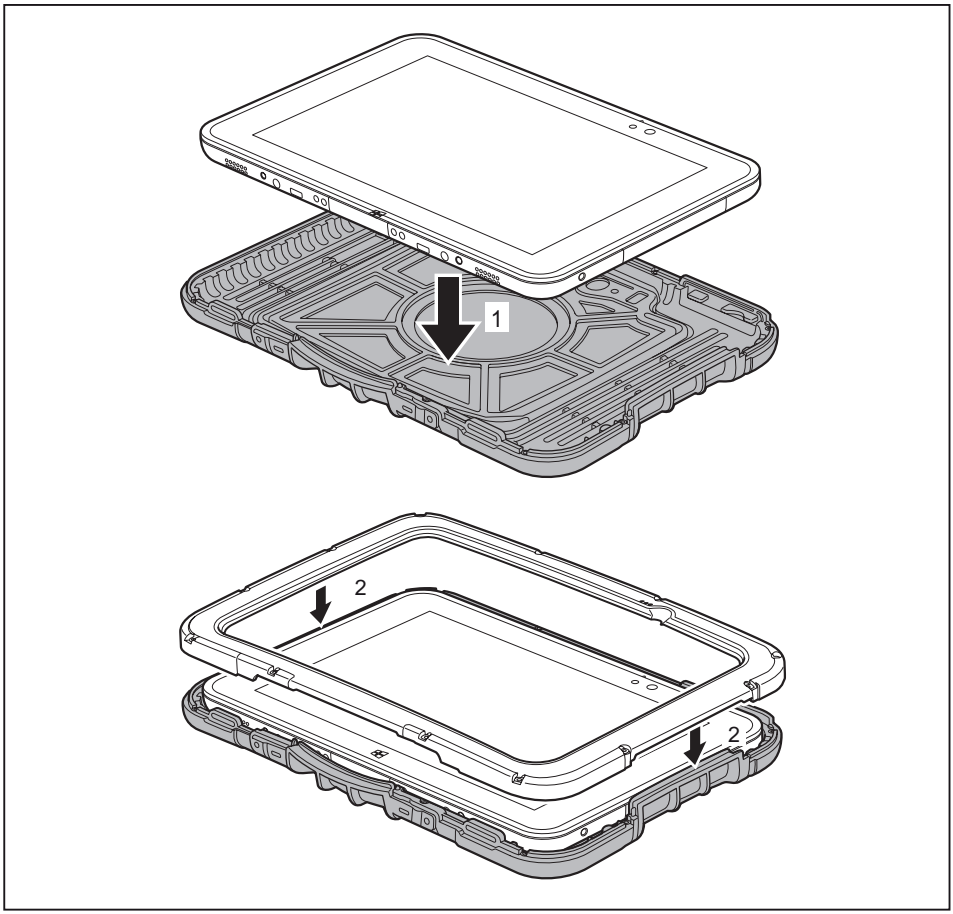
► Remove the cover (1) in the battery compartment.



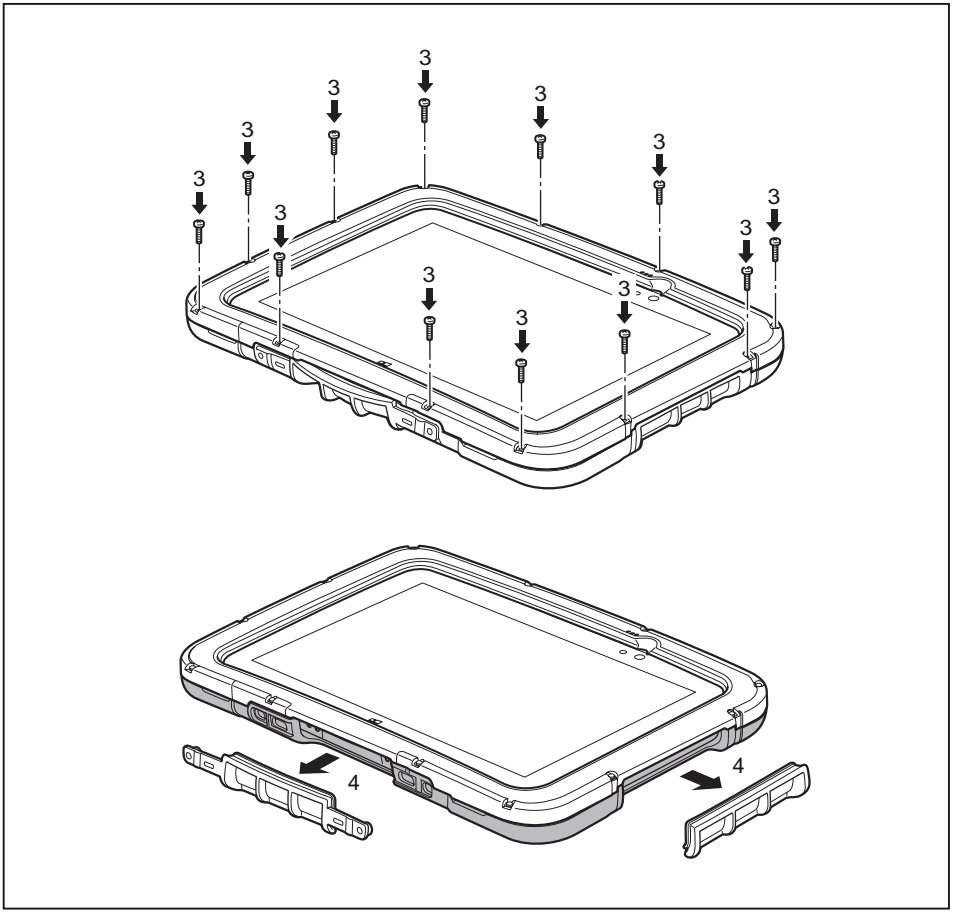
► Position the Smart Shell on the Tablet PC as shown (2).
► Secure the Smart Shell with the screw (3).
► Secure the seal (4).

Rugged frame (optional)

When using the rugged frame together with a cradle variant (optional), you must first remove the adapter from the cradle before you can connect the Tablet PC in the rugged frame to the cradle, see "Adapter for the cradle", Page 44



► Position the Tablet PC on the lower part of the rugged frame (1) as shown.
► Place the upper part onto the lower part (2) as shown.



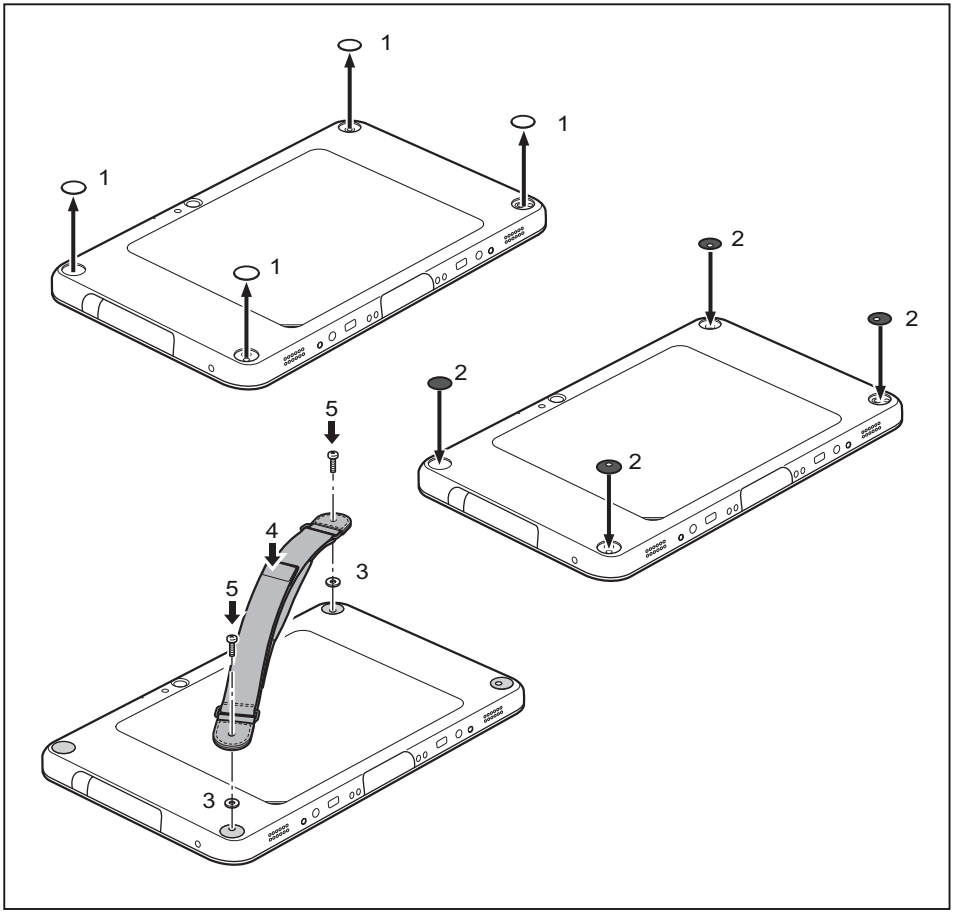
► Connect the upper and lower parts using the screws (3).

► If necessary, remove the covers (4) to be able to access the ports and controls below them.

Hand strap (optional)

The hand strap kit includes the following components: hand strap, 2 screws of type M2.5x8, 2 spacers and 4 covering stickers.

- Use a suitable tool of the correct size when fitting the screws.
- Keep the screws out of the reach of children.
- Do not shake the device too much when you hold it by the hand strap, otherwise it could fall down.



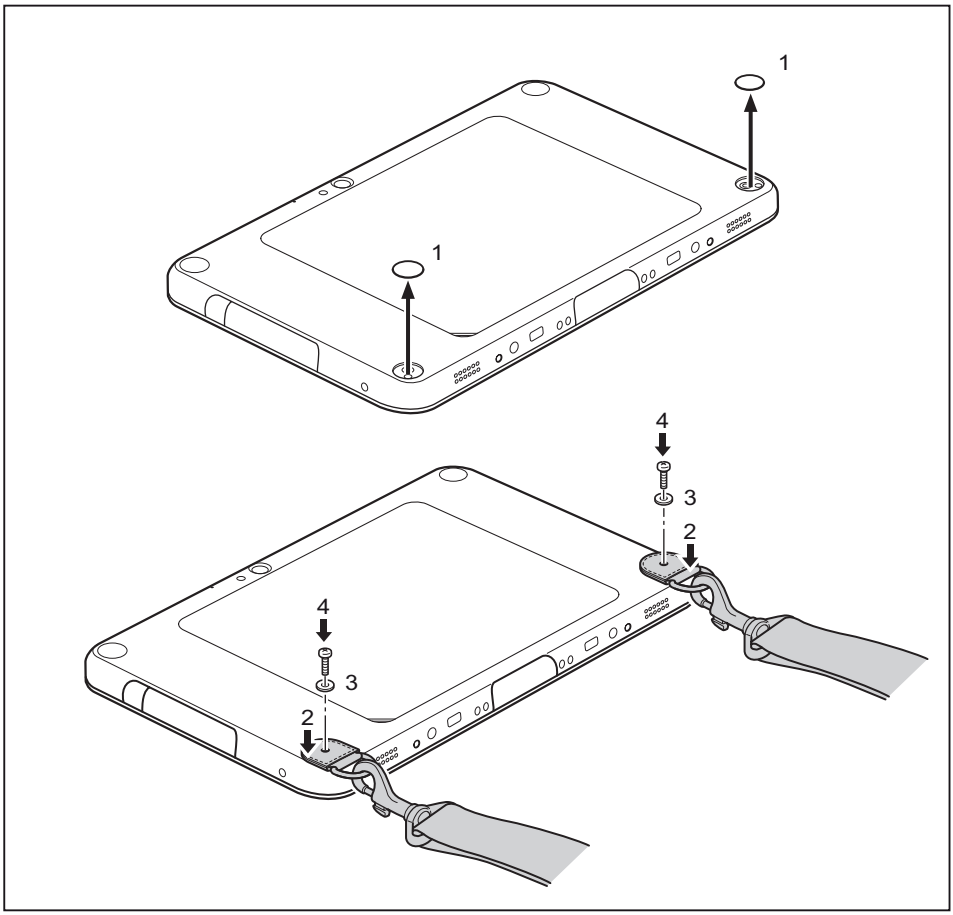
► Remove the covers from the screw holes on the rear of the tablet PC (1).

- ► Apply the covering stickers in the openings as shown (2).
- ► Position the spacers between the Tablet PC and the hand strap (3).
- ► Put the hand strap in position on the Tablet PC (4). Make sure that the screw holes of the hand strap and the Tablet PC line up exactly above one another.
- ► Secure the hand strap with the screws (5).

Shoulder strap (optional)

The shoulder strap kit includes the following components: Shoulder strap with 2 brackets, 2 screws of type M2.5x8 and 2 spacers.

- Use a suitable tool of the correct size when fitting the screws.
- Keep screws and mountings out of the reach of children.



► Remove the covers from the screw holes on the rear of the tablet PC (1).

- ► Put the shoulder strap in position on the Tablet PC (2). Make sure that the openings in the shoulder strap and the screw holes of the Tablet PC line up exactly above one another.
- ► Position the spacers (3) on the screw holes.
- ► Secure the shoulder strap with the screws (4).

Security functions

Your Tablet PC has several security features that you can use to secure your system from unauthorised access.

This chapter explains how to use each function, and what the benefits are.

Please remember that in some cases, for example, forgetting your password, you may be locked out and unable to access your data. Therefore, please note the following information:

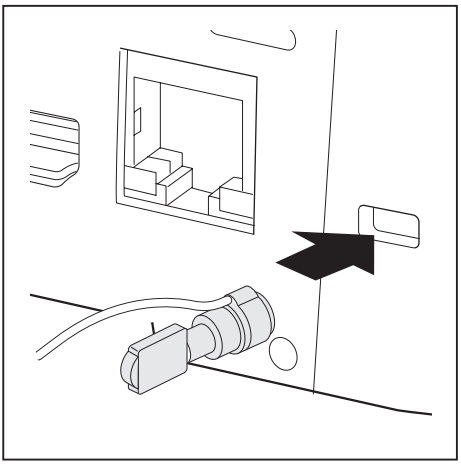
- Back up your data on external data carriers at regular intervals.
- Some security functions need you to choose passwords. Make a note of the passwords and keep them in a safe place.

If you forget your passwords you will need to contact the our Service Desk. Deletion or resetting of passwords is not covered by your warranty and a charge will be made for assistance.

Using the security lock (optional)

Your multifunctional cradle or charging cradle (optional) comes with a security lock fixture for the Kensington Lock cable. Using the Kensington Lock with its strong steel cable, you can protect your Tablet PC and the cradle against theft. The Kensington Lock cable is available as an accessory.

Fujitsu recommends the use of a combination lock.



► If the Tablet PC is connected to the cradle (optional): Fit the Kensington Lock cable to the fixture on your cradle.

Configuring password protection in BIOS Setup Utility

Before using the various options for password protection in the *BIOS Setup utility* to increase data security, please observe the following:

Make a note of the passwords and keep them in a safe place. If you forget your supervisor password you will not be able to access your Tablet PC. Deletion of the password is not covered by your warranty and a charge will be made for assistance.

Your password can be up to 32 characters long and contain letters and numbers. No distinction is made between uppercase and lowercase.

SmartCard reader (optional)

For information on installation of the Smart Shell with SmartCard reader, see "Smart Shell with SmartCard reader (optional)", Page 51.

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 home banking.

We recommend that you always use two SmartCards. Always keep one of the SmartCards in a safe place if you are carrying the other SmartCard with you.

In order to be able to take advantage of all the security features of your Tablet PC, you will need a CardOS SmartCard from Fujitsu.

The SmartCard can only be used with a PIN, offering maximum protection even if you lose the SmartCard. In order to maximise your security, the CardOS SmartCard is disabled if three incorrect attempts are made to enter the PIN.

When you use the CardOS SmartCard for the first time, you will either need to enter the preset PIN "12345678" or the PIN given to you by your systems administrator.

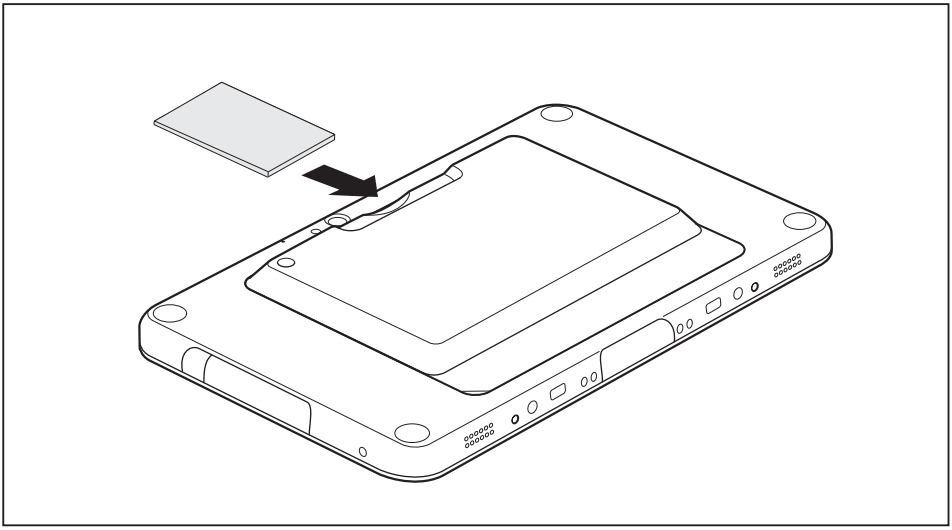
Installing the SmartCard reader

Install the SmartCard reader as described in section "Smart Shell with SmartCard reader (optional)", Page 51.

Inserting the SmartCard

Do not use force when inserting and removing the SmartCard.

Make sure that foreign objects do not fall into the SmartCard reader.



► Turn the Tablet PC over.

► Push the SmartCard into the SmartCard reader with the chip facing downwards.

Connecting external devices

Under all circumstances, please observe the safety notes provided in the "Important notes", Page 12 chapter before connecting or disconnecting any devices to or from your Tablet PC.

Always read the documentation supplied with the device you wish to connect.

Never connect or disconnect cables during a thunderstorm.

Never pull at a cable when disconnecting it. Always grasp the plug.

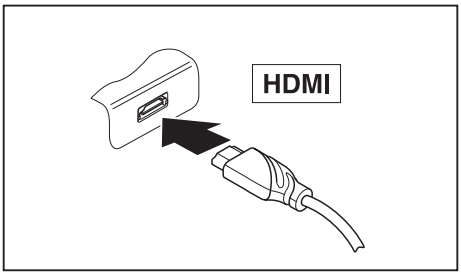
With some devices, such as USB devices, it is not necessary to switch off the Tablet PC and the device before connecting/disconnecting. For more information about whether or not devices need to be switched off, please refer to the documentation supplied with the external device.

Some of the external devices require special drivers (see the operating system and external device documentation).

Connecting an external monitor

HDMI port (multifunctional cradle only)

The HDMI port of the multifunctional cradle can be used to connect an external amplifier, LCD TV or a plasma TV with an HDMI port.



- ► Connect the data cable to the external device.
- ► Connect the data cable to the HDMI port of the multifunctional cradle.

Some LCD televisions have only two loudspeakers/loudspeaker ports and therefore cannot reproduce Dolby Digital. To play back HDMI sound, you must change the HDMI sound settings accordingly.

You can find the settings under *Control Panel - Hardware and Sound*. Disable the settings for Dolby Digital to enable playback of HDMI sound.

Connecting USB devices (Tablet PC or multifunctional cradle)

Do not connect any external devices to the micro USB port, this port is only used for the power supply for the Tablet PC.

On the USB ports, you can connect external devices that also have a USB port (e.g. a DVD drive, a printer, a scanner or a modem).

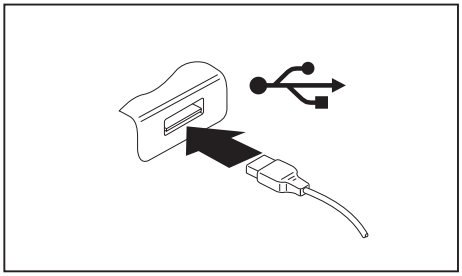
USB devices are hot-pluggable. This means you can connect and disconnect devices while your operating system is running.

USB 1.x has a maximum data transfer rate of 12 Mbit/s.

USB 2.0 has a data transfer rate of up to 480 Mbit/s.

USB 3.0 has a data transfer rate of up to 5 Gbit/s.

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 a USB port of the Tablet PC.

or

- ► Connect the data cable to a USB port of the multifunctional cradle.

Device drivers

USB devices will be automatically recognised and installed by your operating system.

How to remove USB devices correctly

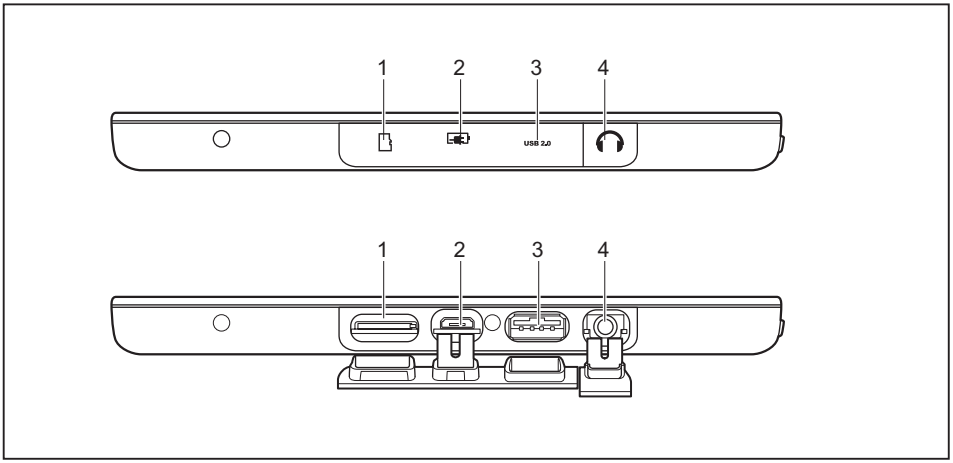
Always correctly remove the device according to the rules described below, to ensure that none of your data is lost.

- ► Tap the symbol for safe removal of the hardware.
- ► Select the device which you want to shut down and remove.
- ► Tap *OK*.

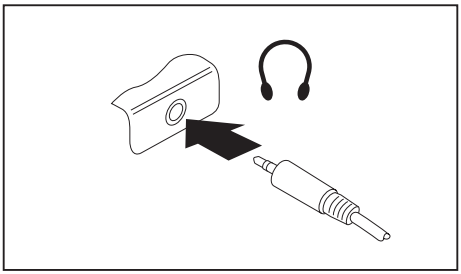
↳ Wait for the dialogue box which tells you that it is now safe to remove the device.

Headphone port

Via the headphone port, you can connect either a headphone or an external speaker to your Tablet PC.



► Open the cover of the headphone port (4) on the right side of the device.



► Connect the audio cable to the external device.

► Connect the audio cable to the headphone port of the Tablet PC.

↳ The internal loudspeakers are disabled.

If you purchase a cable from a retailer, please note the following information:

The headphone port on your Tablet PC is a "3.5 mm jack socket".

If you want to connect headphones or a speaker you will need a "3.5 mm jack plug".

Settings in BIOS Setup Utility

To navigate in the *BIOS Setup Utility*, you have to use an external USB keyboard.

The *BIOS Setup Utility* allows you to set the system functions and the hardware configuration for the Tablet PC.

When it is delivered, the Tablet PC is set to factory default settings. You can change these settings in *BIOS Setup Utility*. Any changes you make take effect as soon as you save and exit the *BIOS Setup Utility*.

The *BIOS Setup Utility* program contains the following menus:

Info	Displays information relating to the BIOS, processor and Tablet PC
System	Advanced system settings
Advanced	Configuration of various hardware components
Security	Password settings and security functions
Boot	Configuration of the start-up sequence
Exit	Exits the *BIOS Setup Utility*

Starting the BIOS Setup Utility

- ► Press and hold the volume button and switch on the tablet PC.
- ► If a password has been assigned, enter the password and press the Enter key.

If you have forgotten the password, contact your system administrator or contact our customer service centre.

The *BIOS Setup Utility* starts.

Troubleshooting and tips

Follow the safety notes in the "Safety/Regulations" manual when connecting or disconnecting cables.

If a fault occurs, try to correct it as described. If you fail to correct the problem, proceed as follows:

► Make a note of the steps and the circumstances that led to the fault. Also make a note of any error messages displayed.

► Switch the Tablet PC off.

► Please contact the Hotline/Service Desk.

You can find the telephone numbers in the service desk list. Please have the following information ready when you call:

- The model name and serial number of the Tablet PC. The serial number is located on a sticker on the underside of the Tablet PC.
- Notes of any messages that appear on the screen and information on acoustic signals.
- Any changes you have made to the hardware or software after receiving the Tablet PC.
- Any changes you have made to the *BIOS Setup* settings after receiving the Tablet PC.
- Your system configuration and all peripheral devices connected to your system.
- Your sales contract.

Our Tablet PCs have been designed primarily with mobile applications in mind. This means that considerable effort has been made to optimise components and equipment in terms of weight, space and energy requirements. Depending on the particular configuration you have purchased, it is possible that functionality may be slightly reduced compared to a desktop PC if you are running processor-intensive gaming software, e.g. games with intensive 3D graphics. Updating your hardware with drivers which have not been approved by Fujitsu Technology Solutions may result in performance losses, data losses or malfunction of the equipment. A list of approved drivers and current BIOS versions can be downloaded from: "http://support.ts.fujitsu.com/Download/Index.asp"

Forced shut down

► Keep the ON/OFF button pressed for at least 10 seconds.

↳ The device will shut down. You can then restart it.

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 or underside of the casing.
- ► For further clarification of the problem, contact the Service Desk for your country (see the Service Desk list or visit the Internet at "http://support.ts.fujitsu.com/contact/servicedesk/ServiceDeskNumber_Int.asp"). When you do this, please have ready the ID number and serial number of your system.

The Tablet PC's date or time is incorrect

Cause	Troubleshooting
Time and date are incorrect.	► With the *BIOS-Setup-Utility*, you can set the date and time in the *main* menu.
Date and time are still set incorrectly after switching on the Tablet PC.	► Please contact your sales outlet or our Hotline/Service Desk.

Battery indicator does not illuminate

Cause	Fault elimination
The battery is fully discharged.	► Connect the mains adapter to the Tablet PC to charge the battery. **or** ► Keep the ON/OFF button pressed for at least 10 seconds and then connect the mains adapter to the Tablet PC to charge the battery.

The Tablet PC's touchscreen remains dark

Cause	Troubleshooting
Touchscreen is switched off.	► Press a key (external keyboard) or tap on the touchscreen.
External monitor or television set connected.	► Check whether the graphics driver settings are correct or whether an external monitor has been detected in "Intel Graphics Media Accelerator Driver for mobile".

The display on the Tablet PC's touchscreen is difficult to read.

Cause	Troubleshooting
Reflected glare	► Move the Tablet PC into a different position. ► Increase the brightness of the screen.

The external monitor remains blank

Cause	Troubleshooting
Monitor is switched off.	► Switch the external monitor on.
Power saving has been activated (monitor is blank).	► Press a key (external keyboard) or tap on the touchscreen.
Brightness is set to dark.	► Adjust the brightness of the monitor.
Screen output is set on the Tablet PC's touchscreen.	► Check whether the graphics driver settings are correct or whether an external monitor has been detected in "Intel Graphics Media Accelerator Driver for mobile".
The external monitor's power cable or data cable is not connected properly.	► Switch off the Tablet PC and the external monitor. ► Check whether the power cable is plugged properly into the external monitor and into the power socket. ► Check whether the data cable is properly connected to the Tablet PC and the external monitor (if it is plugged in with a connector). ► Switch on the Tablet PC and the external monitor.

The external monitor is blank or the image is unstable

Cause	Troubleshooting
The wrong external monitor has been selected or the wrong screen resolution has been set for the application program.	► Terminate the application program in Windows. If the error persists after terminating the program, use the key combination for switching the screen output in order to switch to the touchscreen of the tablet PC. Change the following setting: ► Set the screen resolution: Set the screen resolution as described in the documentation for your operating system. ► Select monitor: Select monitor 1 or 2 as described in the documentation for your operating system.

The Tablet PC does not start after switch on

Cause	Troubleshooting
The battery is not installed correctly.	► Check whether the battery is installed correctly in its compartment. ► Switch on the Tablet PC.
The battery is dead.	► Charge the battery. **or** ► Insert a charged battery. **or** ► Connect the mains adapter to the Tablet PC.
The power adapter is not connected correctly.	► Check whether the mains adapter is connected correctly to the Tablet PC. ► Switch on the Tablet PC.

The Tablet PC stops working

Cause	Troubleshooting
The Tablet PC is in energy saving mode.	► Leave energy saving mode.
An application programme has caused the malfunction.	► Close the application program or restart the Tablet PC (by restarting the operating system or switching the device off and back on again).
The battery is dead.	► Charge the battery. **or** ► Connect the mains adapter to the Tablet PC.

The printer does not print

Cause	Troubleshooting
The printer is not switched on.	► Make sure that the printer is switched on and ready for operation (refer to the documentation supplied with the printer).
The printer is not connected correctly.	► Check that the data cable connecting the Table PC to the printer is properly connected.
The printer driver is faulty or not correctly installed, or it is the wrong printer driver.	► Check that the data cable connecting the Tablet PC to the printer is properly connected. ► Check whether the correct printer driver is loaded (refer to the printer documentation).

The radio connection to a network does not work

Cause	Troubleshooting
The wireless component is disabled.	► Switch the radio component on (see "Switching the wireless components on and off", Page 39).
The wireless component is enabled. Despite this, the wireless connection to a network does not work.	► Check whether the radio connection is switched on via the software. ► Further information on using the radio component can be found in the help files.

The battery discharges too quickly

Cause	Troubleshooting
The battery is either too hot or too cold. In this case the battery indicator flashes.	► Bring the Tablet PC up/down to a normal temperature again. ► If the operating time of the battery life is extremely short, the battery is probably too old. Replace battery if necessary.
You may have an application running that consumes a great deal of power due to frequent accessing of the hard disk or optical drive.	► Use the mains adapter as frequently as possible.
The maximum brightness may have been set for the screen.	► Reduce the brightness of the screen to lower energy consumption: You will find the setting under *Control Panel – Hardware and Sounds – Windows Mobility Center*.

SmartCard reader is not recognised.

Cause	Troubleshooting
Chip card inserted incorrectly.	► Make sure you have inserted your SmartCard into the SmartCard reader with the chip facing upwards/downwards (device-dependent). ► Check whether the SmartCard you are using is supported. Your SmartCard must comply with the ISO standard 7816-1, -2, -3 and -4.

SmartCard PIN forgotten

Cause	Troubleshooting
PIN forgotten	► If you work in a network, contact your system administrator, who can unlock your Tablet PC with a supervisor PIN.

User and/or supervisor SmartCard lost

Cause	Troubleshooting
User and/or supervisor SmartCard lost	► If you have lost your User SmartCard, you can continue working with the Supervisor SmartCard and initialise a new User SmartCard or deactivate the SystemLock function. ► If you have lost the Supervisor SmartCard, you can continue working, but you no longer have all your rights and can no longer initialise a Supervisor SmartCard. ► If you have lost both SmartCards, you can no longer boot your system. Please contact our Service Desk. You must provide proof of ownership for the device. Then the Service Desk will refer you to our service partner, who will unlock your device (for a charge).

SmartCard lost

Cause	Troubleshooting
SmartCard lost	► If you work in a network, contact your system administrator, who can boot your Tablet PC with a Supervisor SmartCard.

Error messages on the screen

This section describes the error messages generated by the BIOS Setup. Error messages displayed by the operating system or programmes are described in the relevant documentation.

If the error message appears repeatedly, despite troubleshooting measures, please contact the place of purchase or our customer service centre.

Error message/cause	Resolution
System CMOS checksum bad - default configuration used The system configuration information is incorrect.	► Switch off the Tablet PC. ► Switch on the Tablet PC. ► Keep the volume – button and the shortcut button pressed and switch the Tablet PC on. If you keep the volume – button pressed, you can switch into the *BIOS Setup*- ► In the *BIOS Setup*, select the *Exit* menu. ► Select the entry *Load Setup Defaults*. ► Select *OK* and press the Enter key.
Keyboard controller error	► Switch off your Tablet PC with the ON/OFF switch. ► Wait 3 - 5 seconds and switch on the Tablet PC again.
Keyboard error	If you are using an external keyboard: ► Check the connection and reboot the Tablet PC.
nn Stuck key	► Make sure that no key is pressed.
Operating system not found	► Check in the *BIOS Setup* whether your hard disk has been set correctly. ► Make sure that the operating system is installed on the corresponding drive.
Press <F1> to resume, <F2> to SETUP This error message appears if an error occurs during the self-test before starting the operating system.	► Press the Alt key on the Tablet PC to boot the operating system
Real time clock error	► Contact your sales outlet or our customer service centre.
nnnnK Shadow RAM failed at offset: xxxx Failing Bits: zzzz	► Contact your sales outlet or our customer service centre.
System battery is dead - Replace and run SETUP	► Contact your sales outlet or our customer service centre.
System cache error - Cache disabled	► Contact your sales outlet or our customer service centre.
System timer error	► Contact your sales outlet or our customer service centre.

Technical data

Tablet PC

General	
Processor	Intel Atom (TM) Z3795 or Z3745 Quad-core
Main memory	4GB RAM & 64GB or 128 GB SSD eMMC
Electrical data	
Safety regulations complied with	CE
Protection class	II
Maximum power consumption (when the Tablet PC is switched on and the battery is charged):	Max. 11.6 W
Touchscreen	
Size	8.3” / 21 cm
Resolution	1920 x 1200 pixels / 16 million colours
Pixel class	II
Brightness control	12 levels
Technology	Wide-View High-Bright display with LED background lighting
Digitizer and glass panel	Glare capacitive touch panel
Cameras	• Front: 2 Megapixels • Back: 8 megapixels, autofocus, mobile light
Graphics card	
Chip	Intel HD graphics
Maximum resolution on external display:	1920 x 1080 (1080p)
Dimensions	
Width x depth x height	227.8 x 150.1 x 12.5 mm / 8.97 x 5.91 x 0.49 in.
Weight depending on configuration	540 g / 1.19 lbs
Input devices	
Tablet buttons	3 keys
Slots	
Memory card slot	1 x Micro SD Card
SIM card slot (optional)	1 x standard SIM card
Ports	
Headphone port	3.5 mm stereo mini jack
Docking port	1 x
USB (Universal Serial Bus)	1 x USB 2.0
Environmental conditions	
Environment class DIN IEC 721	7K1
Mechanism class DIN IEC 721	7M2

Operating temperature	-10 °C to +50 °C / 14 °F to 122 °F
Transport temperature (2K2)	-20 °C to +60 °C / -4 °F .... 140 °F

Rechargeable battery

You can find information on the batteries used in your device on the Internet at "http://fujitsu.com/fts/support".

Rated voltage	3.8 V
Typical rated capacity	16.8 Wh

Mains adapter

Make certain that you always use the correct mains adapter for operation with or without the cradle in each case!

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

Mains adapter only for the Tablet PC (10 W)

Rated voltage	5 V
Max. rated current	2 A

Mains adapter for operation with the multifunctional or charging cradle (60 W, optional)

Rated voltage	12 V
Max. rated current	5 A

Multifunctional cradle (optional)

Electrical data	
Safety regulations complied with	CE
Protection class	II
Ports	
HDMI	1 x
USB (Universal Serial Bus)	3 x USB 2.0
Docking port	18-pin
LAN port	1 x
Environmental conditions	
Environment class DIN IEC 721	7K1
Mechanism class DIN IEC 721	7M2
Operating temperature	-10 °C to +50 °C / 14 °F to 122 °F
Transport temperature	-20 °C to +60 °C / -4 °F .... 140 °F

Smart Shell with magnetic strip reader (optional)

Dimensions	
Width x Depth x Height	143.7 x 134.0 x 22.0 mm 5.66 x 5.28 x 0.87 inch
Weight	65 g / 0.14 lbs

Smart Shell with SmartCard reader (optional)

Dimensions	
Width x Depth x Height	143.7 x 121.6 x 16.2 mm 5.66 x 4.79 x 0.64 inch
Weight	78 g / 0.17 lbs

Rugged frame (optional)

Dimensions	
Width x Depth x Height	243.9 x 166.2 x 21.5 mm 9.60 x 6.54 x 0.85 inch
Weight	245 g / 0.54 lbs

Manufacturer’s notes

Disposal and recycling

You can find information on this subject on your Tablet PC or on our website ("http://www.fujitsu.com/fts/about/fts/environment-care/").

Declarations of Conformity

The "Declarations of Conformity" for the device can be found on the Internet at: "http://globalsp.ts.fujitsu.com/sites/certificates/default.aspx".

Fujitsu Technology Solutions hereby declares that your device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

CE marking

The shipped version of this device complies with the requirements of EU directives 2004/108/EC "Electromagnetic compatibility", 2006/95/EC "Low voltage directive", 2011/65/EC "RoHS directive" and 2009/125/EC "ecodesign directive".

CE marking for devices with radio component

This equipment complies with the requirements of Directive 1999/5/EC of the European Parliament and Commission from 9 March, 1999 governing Radio and Telecommunications Equipment and mutual recognition of conformity.

CE nnnn (!) ; nnnn: For digits and exclamation mark (!), see label on the product.

You can find more information and declarations of conformity on the Internet at: "http://globalsp.ts.fujitsu.com/sites/certificates".

This equipment can be used in the following countries:

Belgium	Bulgaria	Denmark	Germany
Estonia	Finland	France	Greece
UK	Ireland	Iceland	Italy
Latvia	Liechtenstein	Lithuania	Luxembourg
Malta	Netherlands	Norway	Austria
Poland	Portugal	Rumania	Sweden
Switzerland	Slovakia	Slovenia	Spain
Czech Republic	Hungary	Cyprus	Croatia
Turkey			

Contact the corresponding government office in the respective country for current information on possible operating restrictions. If your country is not included in the list, then please contact the corresponding supervisory authority as to whether the use of this product is permitted in your country.

Other certification markings

Any other certification markings are listed in the "Manual Appendix - Additional Certifications" supplement.

If such markings are available, you can find the supplement on the Internet at "http://support.ts.fujitsu.com/Manuals/" with the Operating Manual for your device.

Regulatory notices

If there is no FCC logo and also no FCC ID on the device then this device is not approved by the Federal Communications Commission (FCC) of the USA. Although it is not explicitly forbidden to travel in the US trading area carrying this device, to avoid trouble at customs clearance, Fujitsu Technology Solutions GmbH recommends not to bring this device into the US trading area.

Regulatory information for Tablet PCs without radio device

NOTICE:

Changes or modifications not expressly approved by Fujitsu Technology Solutions could void this user's authority to operate the equipment.

Notice to Users of Radios and Television

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Notice to Users of the US Telephone Network

Your Tablet PC may be supplied with an internal modem which complies with Part 68 of the FCC rules. On this Tablet PC is a label that contains the FCC Registration Number and the Ringer Equivalence Number (REN) for this equipment among other information. If requested, the user must provide their telephone company with the following information:

1. The telephone number to which the Tablet PC is connected.
2. The Ringer Equivalence Number (REN) for this equipment.
3. The equipment requires a standard modular jack type USOC RJ-11C which is FCC Part 68 compliant.
4. The FCC Registration Number.

This equipment is designed to be connected to the telephone network or premises wiring using a standard modular jack type USOC RJ-11C which is FCC Part 68 compliant and a line cord between the modem and the telephone network with a minimum of 26AWG.

The REN is used to determine the number of devices that you may connect to your telephone line and still have all of those devices ring when your number is called. Too many devices on one line may result in failure to ring in response to an incoming call. In most, but not all, areas the sum of the RENs of all of the devices should not exceed five (5). To be certain of the number of devices you may connect to your line, as determined by the RENs, contact your local telephone company. If this equipment causes harm to the telephone network, your telephone company may discontinue your service temporarily. If possible, they will notify you in advance. If advance notice is not practical they will notify you as soon as possible. You will also be advised of your right to file a complaint with the FCC.

This fax modem also complies with fax branding requirements per FCC Part 68.

Your telephone company will probably ask you to disconnect this equipment from the telephone network until the problem is corrected and you are sure that the equipment is not malfunctioning. This equipment may not be used on coin-operated telephones provided by your telephone company. Connection to party lines is subject to state tariffs. Contact your state's public utility commission, public service commission or corporation commission for more information.

This equipment includes automatic dialing capability. When programming and/or making test calls to emergency numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call.
- Perform such activities in off-peak hours, such as early morning or late evening.

FCC rules prohibit the use of non-hearing aid compatible telephones in the following locations or applications:

- All public or semi-public coin-operated or credit card telephones.
- Elevators, highways, tunnels (automobile, subway, railroad or pedestrian) where a person with impaired hearing might be isolated in an emergency.
- Places where telephones are specifically installed to alert emergency authorities such as fire, police or medical assistance personnel.
- Hospital rooms, residential health care facilities, convalescent homes and prisons.
- Hotel, motel or apartment lobbies.
- Stores where telephones are used by patrons to order merchandise.
- Public transportation terminals where telephones are used to call taxis or to reserve lodging or rental cars.
- In hotel and motel rooms as at least ten percent of the rooms must contain hearing aid-compatible telephones or jacks for plug-in hearing aid compatible telephones which will be provided to hearing impaired customers on request.

DOC (Industry CANADA) notices

Notice to Users of Radios and Television

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

CET appareil numérique de la class B respecte toutes les exigence du Réglement sur le matérial brouilleur du Canada.

Notice to Users of the Canadian Telephone Network

NOTICE:

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment. Before connecting this equipment to a telephone line the user should ensure that it is permissible to connect this equipment to the local telecommunication facilities. The user should be aware that compliance with the certification standards does not prevent service degradation in some situations.

Repairs to telecommunication equipment should be made by a Canadian authorised maintenance facility. Any repairs or alterations not expressly approved by Fujitsu or any equipment failures may give the telecommunication company cause to request the user to disconnect the equipment from the telephone line.

NOTICE:

The Ringer Equivalence Number (REN) for this terminal equipment is 0.0. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

CAUTION:

For safety, users should ensure that the electrical ground of the power utility, the telephone lines and the metallic water pipes are connected together. Users should NOT attempt to make such connections themselves but should contact the appropriate electric inspection authority or electrician. This may be particularly important in rural areas.

Avis Aux Utilisateurs Du Réseau Téléphonique Canadien

AVIS : Le présent matériel est conforme aux spécifications techniques d'Industrie Canada applicables au matériel terminal. Cette conformité est confirmée par le numéro d'enregistrement. Le sigle IC, placé devant le numéro d'enregistrement, signifie que l'enregistrement s'est effectué conformément à une déclaration de conformité et indique que les spécifications techniques d'Industrie Canada ont été respectées. Il n'implique pas qu'Industrie Canada a approuvé le matériel.

Avant de connecter cet équipement à une ligne téléphonique, l'utilisateur doit vérifier s'il est permis de connecter cet équipement aux installations de télécommunications locales. L'utilisateur est averti que même la conformité aux normes de certification ne peut dans certains cas empêcher la dégradation du service.

Les réparations de l'équipement de télécommunications doivent être effectuées par un service de maintenance agréé au Canada. Toute réparation ou modification, qui n'est pas expressément approuvée par Fujitsu, ou toute défaillance de l'équipement peut entraîner la compagnie de télécommunications à exiger que l'utilisateur déconnecte l'équipement de la ligne téléphonique.

AVIS : L'indice d'équivalence de la sonnerie (IES) du présent matériel est de 0.0. L'IES assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

AVERTISSEMENT:

Pour assurer la sécurité, les utilisateurs doivent vérifier que la prise de terre du service d'électricité, les lignes télphoniques et les conduites d'eau métalliques sont connectées ensemble. Les utilisateurs NE doivent PAS tenter d'établir ces connexions eux-mêmes, mais doivent contacter les services d'inspection d'installations électriques appropriés ou un électricien. Ceci peut être particulièrement important en régions rurales.

UL Notice

This unit requires an AC adapter to operate. Only use a UL Listed Class 2 adapter. The correct output rating is indicated on the AC adapter label. Refer to the illustration below for the correct AC Adapter output polarity:

CAUTION:

To reduce the risk of fire, use only 26AWG or larger telecommunications line cord.

For Authorized Repair Technicians Only

CAUTION:

For continued protection against risk of fire, replace only with the same type and rating fuse.

WARNING:

Danger of explosion if Lithium (CMOS) battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.

FCC Regulatory information for Tablet PCs with radio device

Federal Communications Commission statement

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of this device.

FCC Interference Statement

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

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the distance between the equipment and the receiver.
3. Connect the equipment to an outlet on a circuit different from the one the receiver is connected to.
4. Consult the dealer or an experienced radio/TV technician for help.

Please note the following regulatory information related to the optional radio device.

FCC Radio Frequency Exposure statement

This radio device has been evaluated under FCC Bulletin OET 65C and found compliant with the requirements as set forth in CFR 47 Sections 2.1091, 2.1093, and 15.247 (b) (4) addressing RF Exposure from radio frequency devices. The radiated output power of this radio device is far below the FCC radio frequency exposure limits. Nevertheless, this device shall be used in such a manner that the potential for human contact during normal operation is minimized. When using this device, a certain separation distance between antenna and nearby persons must be maintained to ensure RF exposure compliance. In order to comply with RF exposure limits established in the ANSI C95.1 standards, the distance between the antennas and the user should not be less than 20 cm (8 inches).

Regulatory Notes and Statements

Radio device, health and authorisation for use

Radio-frequency electromagnetic energy is emitted from the wireless devices. The energy levels of these emissions, however, are far much less than the electromagnetic energy emissions from wireless devices such as mobile phones. Radio devices are safe for use by consumers because they operate within the guidelines found in radio frequency safety standards and recommendations.

The use of the radio devices may be restricted in some situations or environments, such as:

- on board an airplane, or
- in an explosive environment, or
- in situations where the interference risk to other devices or services is perceived or identified as harmful.

In cases in which the policy regarding use of radio devices in specific environments is not clear (e.g., airports, hospitals, chemical/oil/gas industrial plants, private buildings), obtain authorization to use these devices prior to operating the equipment.

Regulatory Information/Disclaimers

Installation and use of this radio device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution or attachment of connecting cables and equipment other than those specified by the manufacturer. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. The manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failure to comply with these guidelines.

Export restrictions

This product or software contains encryption code which may not be exported or transferred from the US or Canada without an approved US Department of Commerce

export license. This device complies with Part 15 of FCC Rules, as well as ICES 003 B / NMB 003 B. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesirable operation.

Modifications not expressly authorised by Fujitsu Technology Solutions may invalidate the user's right to operate this equipment.

Index

A
Anti-theft protection 59
Audio ports 64
Ausschalten
  Tablet PC 21

B
Battery
  battery life 31
  caring for and maintaining 31
  charge level 31, 35
  charging 31
  self-discharge 31
  storage 31
Battery status meter 31
Battery:
  discharges too quickly 70
BIOS Setup Utility
  calling 65
  settings 65
Bluetooth, safety notes 12
Buffer battery, load 67

C
CE marking 76
Certification markings 77
Charging capacity, battery 31
Configuration, BIOS Setup Utility 65
Connecting audio devices 64
Connecting headphones 64
cradle
  Connecting a Tablet PC 45
Cradle 42

D
Date is incorrect 67
Declaration of conformity 76
Device
  setting up 18
Display orientation
  selecting 24
DOC (INDUSTRY CANADA) NOTICES 78

E
Electromagnetic compatibility 76
Energy
  energy saving 13
Energy saving 13
Energy saving mode
  leaving 69
Error message:
  on the screen 72
Error messages on the screen 72
Ethernet LAN 40

F
Fault
  correction 66
First-time setup 17

G
Getting started 17
GPS 40

H
Hardware configuration 65
HDMI port 62

I
Important notes 12
Incorrect date/time 67

L
Landscape orientation
  screen 24
Life, battery 31
Low voltage directive 76

M
Mains adapter
  connecting 18
  setting up 18
Mechanical backup 59
Memory card
  handling 35
  inserting 36
  removing 37
Mobile operation 14
Monitor
  drifting display 68
  remains blank 68

N
Notes 12
CE marking 76
disposal / recycling 76
energy saving 13
Safety 12
touchscreen 23
transport 14

P
Packaging 17
Password protection 60
Portrait orientation
screen 24
Ports 42
Power
power consumption 35
power-management features 35
Power-on indicator 21
Preparing for operation 18
Printer does not print 69

R
Radio component:
safety notes 12
Rechargeable battery 31
see Battery 31
Regulatory information
Tablet PCs with radio device 80
Tablet PCs without radio device 77

S
Safety notes 12
Screen
no screen display 68
Security functions 59
SystemLock 60
Security functions,
SmartCard 60
Security Lock 59
Selecting a location 18
Self-discharge, battery 31
Setup
see BIOS Setup Utility 65
Slot
Memory cards 35
Status indicators 20
Summer time 67
Suspend/Resume button 21
Switching on for the first time 19
Symbols
indicators 20
System configuration 65
System settings, BIOS Setup Utility 65

T
Tablet PC
before you travel 14
transporting 14
using 20
Tablet PC, operation 20
Tablet PC: switching on 21
Technical data
Mains adapter 74
The radio connection to a network does not work 70
The Tablet PC
cannot be started 69
doesn't work. 69
Time not correct 67
Time, daylight savings 67
Tips 66
Touchscreen
difficult to read 68
notes 23
reflected glare 68
remains blank 67
touchscreen is too dark 67
Transport
Transport damage 17
Transportation 14
Travel, Tablet PC 14
Troubleshooting 66

U
USB ports 63
Using the Kensington Lock Cable 59

W
Webcam 30
Wireless LAN:
safety notes 12