

System Handbook

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Welcome

Thank you for purchasing a Shuttle Mini-PC Complete System. Shuttle is pleased to present you the latest technology which meets the most demanding requirements. This handbook will help you as you work with your new Shuttle Mini-PC Complete System. The individual chapters of the handbook explain step by step the most important components and how to use them. You also have access to a whole range of technical information by telephone or via the internet. We wish you much enjoyment with your Shuttle Mini-PC Complete System.

CE Labelling

This device meets the requirements of the EU-Directives for CE labelling. The corresponding CE label on the Shuttle is evidence of this. Please check whether the Shuttle displays the CE label. If there is no CE label please contact your dealer.

Delivery Scope

The following accessories are included in the delivery with your Shuttle Mini-PC Complete System. If one of the components listed is not included in the package, please inform your dealer.

1. Shuttle Mini-PC Complete System
2. Power connection cable
3. Quick Installation Guide
4. Warranty Card

Your Shuttle Mini-PC Complete System can also be accompanied by further accessories depending on the system.

General Safety Instructions

The information below will help you to use your Shuttle Mini-PC Complete System correctly and carefully. Please always follow the instructions on the safety notices and in this handbook:

1. Do not operate your Shuttle Mini-PC Complete System in a cabinet or in a closed space (such as a box or chest etc.).
2. Never put objects through the openings of the casing. If you should do this you could be exposed to dangerous voltages.
3. Your Shuttle Mini-PC Complete System is supplied with a cold appliance connection cable. This is for your safety. Therefore refrain as far as possible from connecting the device with a power source with another cable. If you are unsure please consult your local dealer.
4. Do not place any objects on the power cable, and ensure that the cable is positioned so that people do not trip over it.
5. If you connect the Shuttle Mini-PC Complete System to a connector strip, please ensure that the required amperage of all of the products connected does not exceed the capacity of the connector strip.

6. You should always disconnect your Shuttle Mini-PC Complete System and the connected appliances from the power and from one another before cleaning.
7. Your Shuttle Mini-PC Complete System must never come into contact with water or other liquids.

Assembly and Startup

Only place your Shuttle Mini-PC Complete System on surfaces which are stable, firm, non-slip and even. Do not cover, obstruct or block any of the Shuttle Mini-PC Complete System's openings. These are to prevent overheating. After the suitable place has been found, you can unpack your Shuttle Mini-PC Complete System and the accessories. Please be very careful when unpacking as all of the components are sensitive to shock. If you do not take care the hard drive can be damaged very easily. Therefore prevent any shocks to and any unnecessary transporting of the Shuttle Mini-PC Complete System.

If you do have to open the casing (e.g. when upgrading your system), please adhere to the following:

1. Disconnect the Shuttle Mini-PC Complete System from the power network and also remove all connections to connected appliances.
2. Always ensure that the casing is closed firmly and that all of the screws have been screwed tight before you re-connect the Shuttle Mini-PC Complete System or other connected appliances to the power network.

Please take a moment to inspect the outside of your Shuttle Mini-PC Complete System. This also includes components such as the monitor, speakers and other peripherals. If you notice any external defects such as scratches or dents, please contact the dealer from whom you bought your Shuttle device. Before you start to connect the peripherals such as the monitor, speakers or joystick, we recommend that you connect a high-voltage protection device or a UPS (uninterruptible power supply) to the power cable. Ensure that no long cables are used and that the nearest power source is used.



1. Connecting the keyboard

Connect your keyboard via the jack marked as “Tastatur” (keyboard) which is located at the back of your computer. Please take care that both connections are the same colour (violet). Carefully plug the connector in to the jack. If you have a USB-keyboard, please connect it via the jack marked as “USB”.



2. Connecting the mouse

Connect your mouse via the jack marked as “Maus” (mouse) which is located at the back of your computer. Please take care that both connections are the same colour (green). Carefully plug the connector in to the jack. If you have a USB-mouse, please connect it via the jack marked as “USB”.



3. Connecting the monitor

Connect the monitor cable (15-pin) to your VGA-output or directly to the graphics card. As an option for some models, you can also use the DVI or HDMI-output for connecting monitor and graphics card.



4. Power connection

Connect the power supply cable with the power supply unit of the PC and a wall socket. For devices with an external power supply, first connect the external power supply to the PC and then connect the power supply cable to the wall socket. Ensure that your monitor is also connected to a secured power supply.

Problem Handling

If you notice any problems with the Shuttle Mini-PC Complete System, you should only try to correct these in accordance with the instructions detailed here in the handbook. Improper use of the Shuttle Mini-PC Complete System can be a safety risk and cause permanent damage to the Shuttle Mini-PC Complete System. You should disconnect the Shuttle Mini-PC Complete System from the power supply and call the support hotline number stated on the warranty card. You should also indicate immediately if one of the following problems exists:

- The power cable is damaged or frayed.
- Liquids have penetrated into the Shuttle Mini-PC Complete System.
- The Shuttle Mini-PC Complete System was exposed to rain, water or any other fluids.
- You have dropped the Shuttle Mini-PC Complete System or the casing was damaged.
- The Shuttle Mini-PC Complete System is showing changes in its performance which indicate that repair is necessary.

There are some important details which you should have available to be able to use our technical hotline. You can find these on your invoice or on your Shuttle Mini-PC Complete System:

- Dealer
- Purchase date
- Invoice number
- Product name
- Shuttle ID (you can find this on the bottom of your Shuttle Mini-PC Complete System)

If you require help or support concerning your Shuttle Mini-PC Complete System, please visit our website:

Shuttle Complete Systems with Windows Operating System:

<http://systemsupport.eu.shuttle.com>

Shuttle Complete Systems with Linux Operating System:

<http://eu.shuttle.com/linuxsupport>

Shuttle Mini-PC Complete System

A computer consists of many different components which are both inside and outside the case. These components are called “hardware”. Each individual hardware component has an important function.

In order to be able to work in the best possible way with the Shuttle Mini-PC Complete System, you should get to know the fundamental components and their functions. This also includes their maintenance.

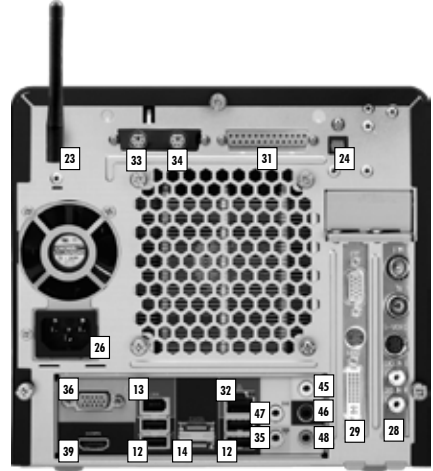
The Shuttle Mini-PC Complete Systems connections and operating controls

Your Shuttle Mini-PC Complete System has the following connectors and operating controls. Please note that there may be differences in the positioning and what is included depending on the system. The illustrations should provide you with an overview of the most important connectors.

G2 Models (e.g. G2 3100)



H7 Models (e.g. H7 4500)



P2 Models (e.g. P2 3500)



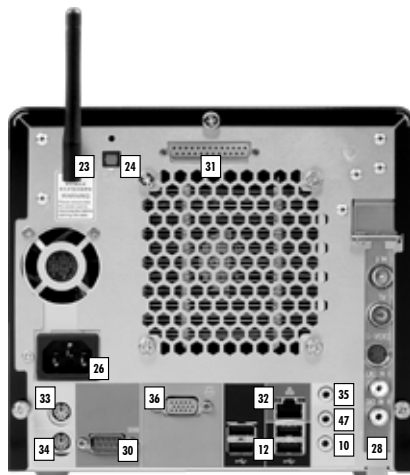
G5/G5M Models (e.g. G5 3300B)



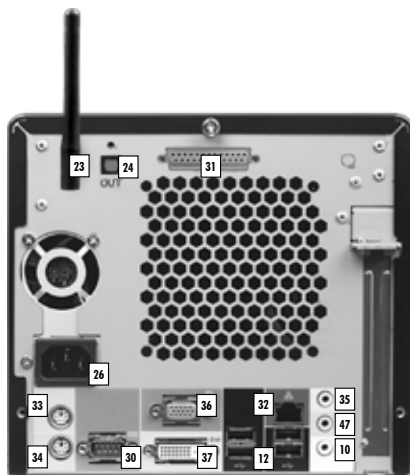
G6 Models (e.g. G6 6800)



D Models (e.g. D 1000)



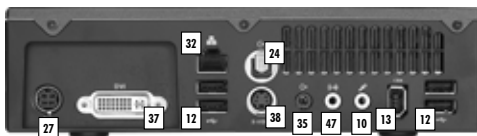
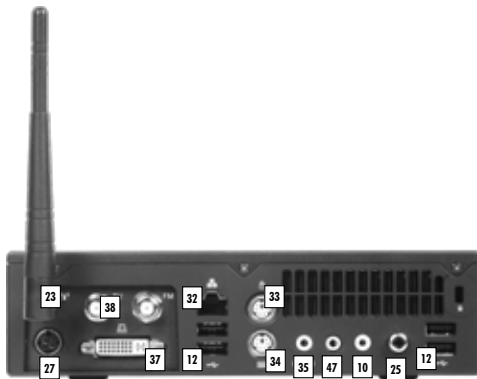
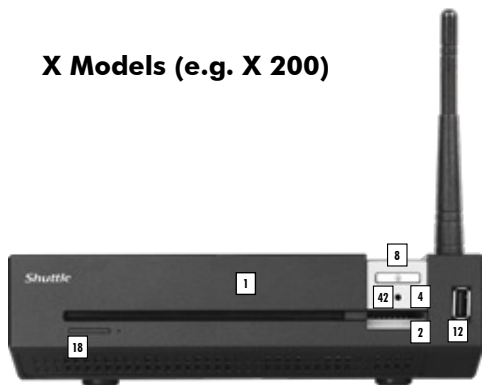
K Models (e.g. K4800)



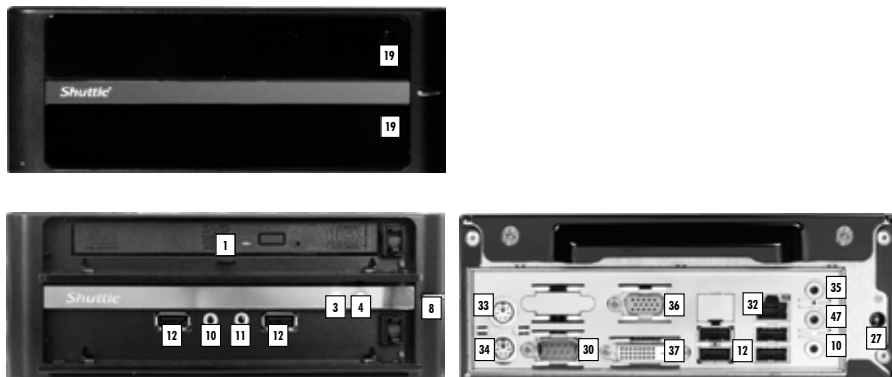
K Models (e.g. K450V)



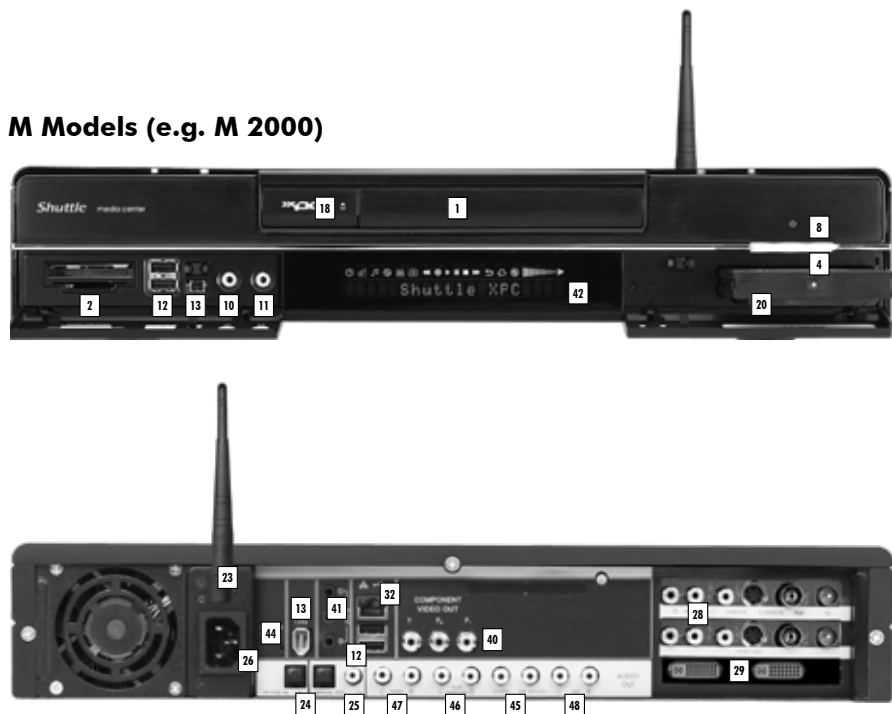
X Models (e.g. X 200)



X Models (e.g. X 2700)



M Models (e.g. M 2000)



1. Optical Drive (optional)
2. Card reader
3. IDE Status LED
4. Power Status LED
5. Bluetooth Status LED (optional)
6. WLAN Status LED (optional)
7. Reset Button
8. Power-On Button
9. External 3.5" Drive
10. (Audio) Microphone
11. (Audio) Headphones
12. USB Connectors
13. Firewire Connectors
14. eSATA Connectors
15. Touchscreen Display
16. Function Buttons for Display
17. VFD Display
18. Eject button for optical drive
19. Release button for drive slot
20. Drive slot for 2.5" mobile racks
21. Speed-Link Button
22. Fingerprint Scanner (optional)
23. Wireless LAN Antenna (optional)
24. Optical SPDIF Connector (optional)
25. Coaxial SPDIF Connector (optional)
26. Connector for mains plug
27. Connector for external power supply
28. Additional expansion card (optional)
29. Graphics card (optional)
30. Serial Interface
31. Parallel Interface (optional)
32. Ethernet
33. PS/2 Mouse connector
34. PS/2 Keyboard connector
35. (Audio) Line-IN L/R
36. VGA-output
37. DVI-output
38. TV-output (optional)
39. HDMI-output
40. Component-output
41. Connectors for infra-red receivers
42. Infra-red receiver (optional)
43. External power supply for eSATA hard disks
44. Clear CMOS button
45. (Audio) Center/Bass
46. (Audio) Surround back L/R
47. (Audio) Line-out L/R
48. (Audio) Surround front L/R

General Details

This part of the handbook deals with the following components:

- Mouse
- Keyboard
- Monitor
- Drives (CD, DVD, Blu-ray etc.)
- Card reader
- Case
- Speakers
- Network card
- TV Tuner
- Remote control & receiver

Please take a moment to familiarise yourself with each of these components.

Mouse

The mouse is one of the most important tools for working with the Shuttle Mini-PC Complete System. It allows you to move the cursor across the screen. You can also use the mouse to open programs or to work with menus and texts. A standard mouse has the three following buttons:

Left button

This is used the most frequently. An object is selected with a single click, or you can place the cursor at any point on the text. When you double-click (two clicks immediately one after the other) you can open programs or documents.

Right button

With a single click of the right mouse button on an object or any point of the screen you can open a menu. These menus allow quick access to various frequently used functions, e.g. cut and paste.

Scroll wheel

The scroll wheel allows various options depending on the program. In the internet browser for example you can use it to move up and down. In a graphics program the scroll wheel often allows a picture to be zoomed in (i.e. enlarged) or reduced.

Application

Cut and paste?

You can cut and paste texts or carry out other shortcuts (quick commands) with the mouse. Move the cursor onto an object, press the left button, and keep it pressed. Now move the cursor to another place and let go of the button.

Cleaning

It is important to keep the mouse clean for best performance. Use a clean cloth with a little cleaning agent to clean the mouse from the outside. If your mouse has a ball (on the bottom of the mouse), you should clean this ball regularly. You should also clean the rollers inside of the mouse with dampened cotton wool.

Keyboard

With the mouse the keyboard is the most important tool for communicating with the computer. The keyboard makes it possible for you to enter text into the computer, e.g. for a letter or an email.

Many modern keyboards have what are known as “hot keys”. You can use these to open your favourite internet sites or frequently used programs. Some can also be used to control the playback of music or films.

Application

How do I use keyboard shortcuts?

Keyboard shortcuts are a combination of different buttons which activate frequently used functions. For example if you press CTRL and C, you can copy something, and CTRL and V allows you to paste the copied object to another location. You can find other shortcuts in the Help area of the operating system. To start help, press the F1 Key. In Linux Operating Systems you will also find the Help Center in the task bar.

Monitor

The monitor is used to display pictures from the computer. The monitor is also called "screen" or "display".

Cleaning

You should clean the monitor regularly in order to prevent eye strains. You should be particularly careful when cleaning as the monitor has a special surface. For more information please consult your Monitor Handbook.

Drives

"Optical Drives" are the names given to all drives which are read by a laser. Optical drives are installed in most modern computers. They include:

- CD-ROM
- DVD-ROM
- CD Burner
- DVD Burner
- Blu-ray

Application

Loading from a CD?

You normally press on the "Eject" Button that is located on the CD or DVD drive. This will open the drawer. Then insert the silver disk with the label facing upwards. Then press the "Eject" Button again or gently press the drawer so that it closes again. Many data carriers now start automatically as they use the "Autostart" function.

The Card Reader

Card readers are a relatively new development in computers and an excellent alter-native to diskette drives. Card readers can read different formats and are therefore used for different electronic storage media such as digital cameras, PDAs, mobile telephones and much more.

You can purchase cards with different storage volumes. Your Shuttle Card Reader supports many different formats.

Case

The case with its numerous connectors and functions is the main component of your Shuttle Mini-PC Complete System and includes all of the components which enable you to work with the computer.

On the front of the case you will see CD and DVD drives, the diskette drive, the on-button, the card reader and in some models the Firewire and USB connectors.

For more information on the connectors, please consult the connector layout diagram at the front of this handbook.

Speakers

The computer's speakers play back the sound of music, games, videos and DVD films. Depending on the soundcard you can enjoy 2-channel, 4-channel, 8-channel, 5.1 or 7.1 multi-channel sound.

Network (LAN)

The LAN or network connection makes it possible for you to connect computers to one another at home or in the office, to exchange data or to go online and surf the internet. If a WLAN network card is installed in your Mini-PC Complete System, wireless network connections can also be set up.

TV Tuner

Television reception is only possible if a TV-Tuner is integrated into the PC or attached (e.g. via USB) to the device.

Remote control & receiver

You can operate your PC from your sofa by using a wireless remote control. Functions can be triggered with just a few key-strokes (e.g. to start a DVD film). The receiver for the remote control signals must be visible to the remote control. In some PCs this receiver is integrated into the front panel and in others it is an external module.

Help and Support

Remember that the „Help“ function is always available to you if you require answers to your questions or have problems with the operating system or your computer.

You can access Help by:

- Pressing the F1 key, if you are on the desktop interface

Troubleshooting

My Shuttle Mini-PC Complete System will not start

- Check whether the Shuttle Mini-PC Complete System is turned on.
- Check whether the power cable is connected and the power socket is turned on.

Nothing is displayed on the screen

- Check whether the monitor is turned on.
- Check whether the monitor is connected to the VGA/DVI/HDMI-output at the back of your Shuttle Mini-PC Complete System.
- Does your Shuttle Mini-PC Complete System have more than one VGA/DVI/HDMI-output? If so, it could be that you have connected the monitor with the wrong output.
- Check whether the monitor is connected and is receiving power.

I cannot hear any sound

- Check whether the speakers are plugged into the correct connectors. For more information on the connectors, please consult the connector layout diagram at the front of this handbook.
- Are the boxes turned on and are they receiving power?
- Make sure that the volume control is not turned to mute or has not been turned right down. For devices using the Windows Operating System double-click on the speaker symbol next to the clock. For devices using the Linux Operating System, select K Mixer.
- Is the volume control on the boxes turned on?

My keyboard or mouse are not working

- Check whether these peripherals are connected to the right jacks at the PC.
- Remove the cable and clean the respective jack in order to remove any possible dirt which may exist.
- If you have a mouse with a ball, try to clean the ball with a soft cloth. You should also clean the mouse inside with dampened cotton wool.

Further Help:

Via the internet

Shuttle Complete Systems with Windows Operating System:
<http://systemsupport.eu.shuttle.com>

Shuttle Complete Systems with Linux Operating System:
<http://eu.shuttle.com/linuxsupport>

By Telephone

Detailed instructions on how to contact the Shuttle Support Hotline are stated on your warranty card.