

Powerful 3-litre PC with two digital monitor outputs

Mini-PCs in cube format are not compact enough for you? In addition, you also want flexibility in the choice of the processor? Shuttle fills exactly this gap by introducing the X 4100B. Choose the processor model that is right for you from the wide product range of Intel Core 2 processors with socket 775 (up to 65 W TDP). The X 4100B is based on the proven Intel G41 Express Chipsatz with versatile GMA X4500 graphics engine. Thanks to HDMI- and DVI-outputs two monitors can be run at the same time using these digital connectors. Digital audio signals can also be transferred via the optical S/PDIF connector as well as with HDMI. A mini PCIe slot offers additional expansion options. For special applications there are two serial interfaces at the back of the unit. A generous, external fanless 90W power supply and the intelligent fan control ensure optimum reliability.

Shuttle Slim-PC **X 4100B**



Feature Highlights

Slim-Design	<ul style="list-style-type: none"> • Slim 3.2 litre chassis, black colour • Dimensions: 24.2 x 20 x 7.3 cm (L/W/H)
Processor	<ul style="list-style-type: none"> • Socket 775 Intel Processor, max. 65W TDP • Core 2 Duo, Pentium or Celeron
Chipset	<ul style="list-style-type: none"> • Intel G41 Express+ ICH7 Chipset
Memory	<ul style="list-style-type: none"> • Up to 8GB DDR3-1333
Storage	<ul style="list-style-type: none"> • 6.35cm/2.5" hard disk or SSD • Optional DVD writer in slim line-format
Graphics	<ul style="list-style-type: none"> • Integrated GMA X4500 graphics, DX10 • Shared memory max. 1759MB (UMA) • Video-outputs: HDMI and DVI-I
Slots	<ul style="list-style-type: none"> • Mini-PCIe slot for optional WLAN module
Other Connectors	<ul style="list-style-type: none"> • 5.1 HD audio, optical S/PDIF output • 6x USB 2.0 (4x rear, 2x front) • 2x Gigabit LAN (RJ45), supports Teaming • 2x RS232 (1x switchable to RS422 / RS485)
Power Supply	<ul style="list-style-type: none"> • External 90W fanless power adapter
Optional	<ul style="list-style-type: none"> • Vertical stand, VESA mount, WLAN-n, DVI-to-HDMI adapter
Warranty	<ul style="list-style-type: none"> • 24 Months Pick-Up-And-Return Service
Application	<ul style="list-style-type: none"> • Basic home and office applications

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Shuttle Slim PC X 4100 – Product Features



The new 3-litre chassis - a clean and modern look

Shuttle has always placed great emphasis on the interior and exterior aesthetics of their Mini-PCs with the belief that a good blend of style and form factor allow the Mini-PC to be attractive, versatile and work well in almost any environment. And the X 4100B was designed just like that and shines in a clean and modern appearance. The optical drive and front panel connectors are elegantly concealed behind drive doors to provide maximum protection. This tiny tot barely stands 7.3 cm in height with a volume of 3.5 litres.



Great Connectivity

On the front, elegantly hidden from view behind drive doors, the panel reveals two USB 2.0 ports for external drives, MP3 players etc. There are also two 3.5mm jacks for headphone and microphone. In addition, the back panel offers a wide range of I/O connectivity as well.



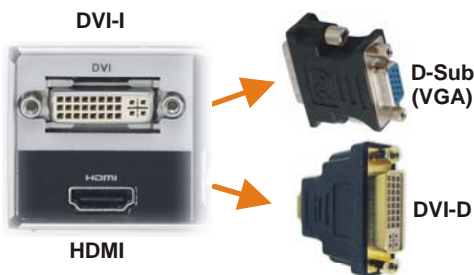
Dual Gigabit LAN Network

Today's media-rich communications across the internet and within enterprises create new demands for clients in Local Area Networks. For that reason, Shuttle applies Gigabit LAN performance to their Mini-PCs and X 4100B even supports two of them. Dual networking allows the computer to connect to a single network using two cables at once with an appropriate switch (teaming mode with load balancing or failover function) or to two different networks depending on the needs of the user.



Dual View Technology with HDMI and DVI (or VGA)

Dual View technology offers multiple display support on up to two separate monitors. This helps to improve on productivity by allowing for spreading multiple windows across two monitors while working with them simultaneously. X 4100B features two video outputs: HDMI and DVI-I.



Video outputs

With optional adapters DVI-D devices can be connected to the HDMI port or VGA devices to the DVI-I port, respectively.

DVI-D means the connector only outputs digital video signals.

DVI-I means digital and analog video signals are put out.

HDMI supports digital video plus multi-channel digital audio output.

Two serial ports

Many PCs do not have these legacy ports any longer, since they have been superseded and replaced by USB for most consumer applications, but they are still commonly used for applications such as industrial automation systems, scientific analysis, POS systems and other industrial applications.

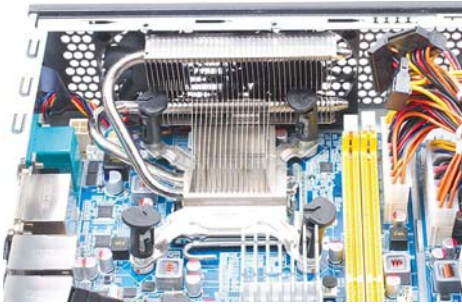
X 4100B features two serial RS-232 ports which are configurable to 5 or 12V. The upper COM port also supports the RS422 and RS485 standard.





Kensington Lock

This is a small, metal-reinforced hole as part of an anti-theft system. (The lock-and-cable are not included)



Heat pipe cooling

X 4100B features a highly efficient heat pipe cooling. A heat pipe is a hollow tube containing a heat transfer liquid. As the liquid evaporates, it carries heat to the cool end, where it condenses and then returns to the hot end. Heat pipes thus have a much higher effective thermal conductivity than solid materials. Please keep the vent holes clear of obstructions.



Optional Stand for vertical operation (PS01)

X 4100B can be used for horizontal operation by default. With the optional stand accessory (PS01), it can also be placed in vertical position.



Optional VESA mount (PV02)

Its optional VESA75/100 wallmount allows it to be installed on to walls or just affixed on the rear side of a monitor which is particularly interesting for the industry segment, company buildings and public institutions.

Shuttle Slim-PC X 4100B Specifications

<i>Basis</i>	System based on: Shuttle Slim PC Barebone XG41
<i>Chassis</i>	Nettop PC, slim chassis, black Dimensions: 242 x 200 x 73 mm (LWH) = 3.5 litres Weight: 3.6 kg gross, 2.4 kg net Front doors for optical drive and front panel connectors Hole for the Kensington Lock at the back panel Operation position horizontal or vertical with the optional stand PS01
<i>Operating System</i>	Windows 7 Home Premium or Professional 32 Bit or 64 Bit version English, German, French, Spanish, Italian, Dutch, Danish
<i>Processor</i>	Intel Processor (Socket 775) with up to 1333MHz FSB and max. 65W TDP Intel Core 2 Duo, Pentium Dualcore or Celeron Dualcore
<i>Storage</i>	6.35cm/2.5" drives with Serial ATA interface - Hard Disk Drive (up to 500GB) or Solid State Drive (SSD) - Optional Slimline DVD R/W writer
<i>Memory</i>	Up to 8GB DDR3-1333 memory (2 slots)
<i>Mainboard</i>	Mini-iTX Mainboard: 17 x 17 cm, 6 layer design Chipset: Intel G41 Express + ICH7 AMI BIOS in 8Mbit EEPROM with SPI interface Supports hardware monitoring and watch dog functionality High quality solid capacitors
<i>Power supply</i>	External 90W power adapter (fanless) Input: 100~240V AC Output: 19V DC, 4.74A, max. 90W
<i>Heat pipe cooling</i>	Processor cooling with heat pipe technology and two fans (6cm)
<i>Slots</i>	1x Mini-PCI-Express X1 (for optional WLAN module)
<i>Integrated graphics</i>	Intel Graphics Media Accelerator X4500 (GMA X4500) Supports Microsoft DirectX 10, Shader Model 4.0 und OpenGL 2.0 Supports Intel Clear Video Technology with ProcAmp color control Maximum DVI resolution: 2048x1536 Max. shared video memory size (UMA): 1759MB*) Video outputs: DVI-I and HDMI support dual independent display (dual view)

<p><i>5.1 channel audio</i></p>	<p>Audio Realtek® ALC 662 6-channel High-Definition Audio Three analog audio connectors (3.5mm) at the Back-Panel: 1) Front Line out (head phone) 2) Rear Surround line-out (shared with microphone input) 3) Center line-out (shared with Line in) Digital audio output: S/PDIF (optical) and via HDMI</p>
<p><i>Dual LAN</i></p>	<p>Dual Realtek 8111E Ethernet network controller (Gigabit) Supports 10 / 100 / 1.000 MBit/s operation Supports Wake-on-LAN (WOL) With two RJ45 ports (dual network) supports Teaming **)</p>
<p><i>Front panel connectors</i></p>	<p>Microphone input Audio Line-out (headphone) 2x USB 2.0 Power button Power LED (blue) HDD LED (yellow)</p>
<p><i>Back panel connectors</i></p>	<p>DVI-I connector (supports VGA with optional adapter) HDMI connector (supports DVI-D with optional adapter) 4x USB 2.0 2x GigaBit LAN (RJ45) 2x RS232 serial ports (5V/12V, 1x switchable to RS422 / RS485) Audio Line-in Audio Line-out Audio Mic-in S/PDIF output (optical) Perforation for Wireless LAN antennas (2 holes) Hole for Kensington Lock</p>
<p><i>Optional accessories</i></p>	<p>Vertical stand (PS01) VESA mount (PV02) Mini-PCIe WLAN card 150 MBit/s (IEEE 802.11b/g/n) with antenna DVI-to-HDMI adapter</p>
<p><i>BTO configurator</i></p>	<p>It is possible to modify certain components of this configuration. Please refer to the "Shuttle Systems Configurator".</p>
<p><i>Warranty</i></p>	<p>24 Months Pick-Up-And-Return Service</p>
<p><i>Conformity Certifications</i></p>	<p>EMI: FCC, CE, BSMI, C-Tick Safety: CB, BSMI, ETL Others: RoHS, Energy Star V5.0, EuP Lot 6</p>

***) Shared Memory Size**

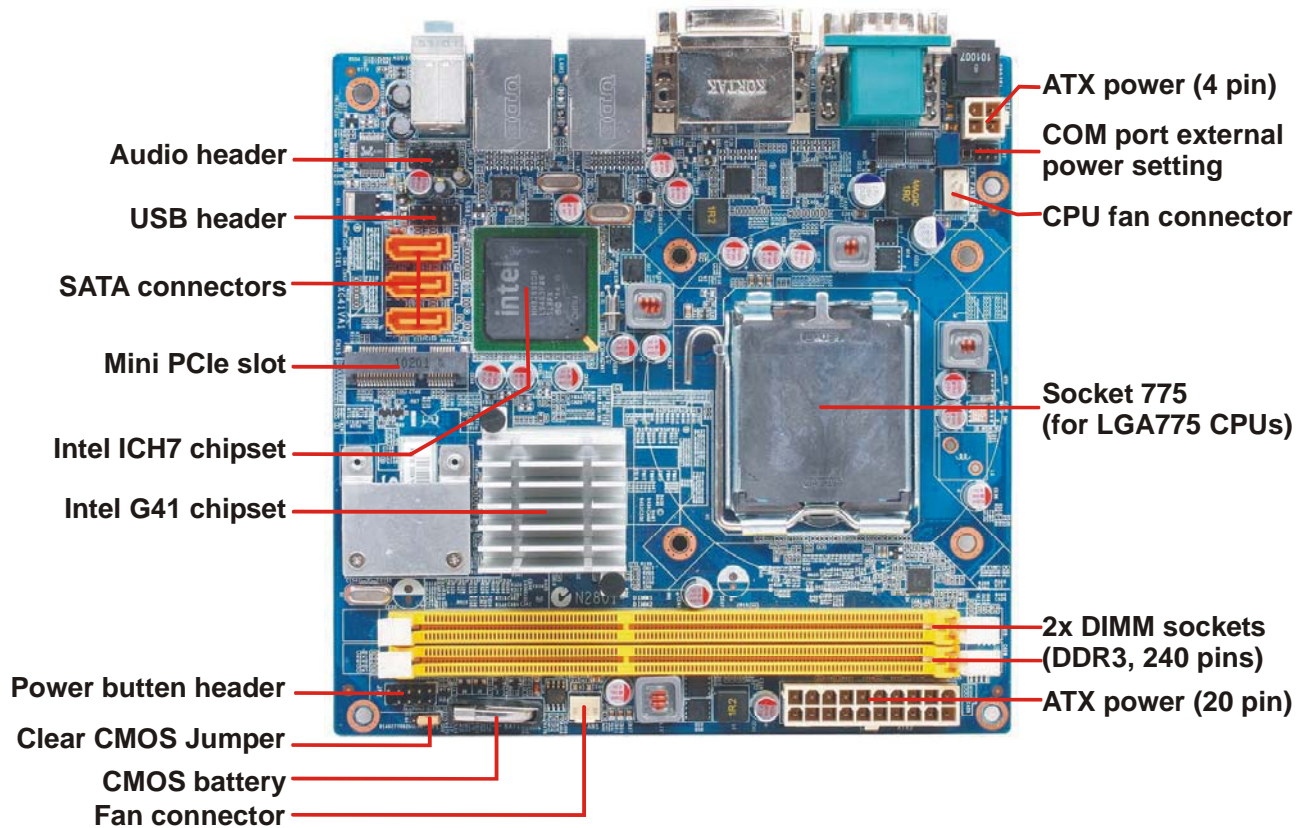
The shared memory size is dynamically controlled by VGA driver, and the Max. shared memory size will be available only when 4GB or more memory is installed under 64-bit OS.

****) Teaming Mode**

The teaming function allows you to group both available network adapters together to function as a single adapter - a method of creating a virtual LAN. The benefit of this approach is that it enables load balancing and failover.

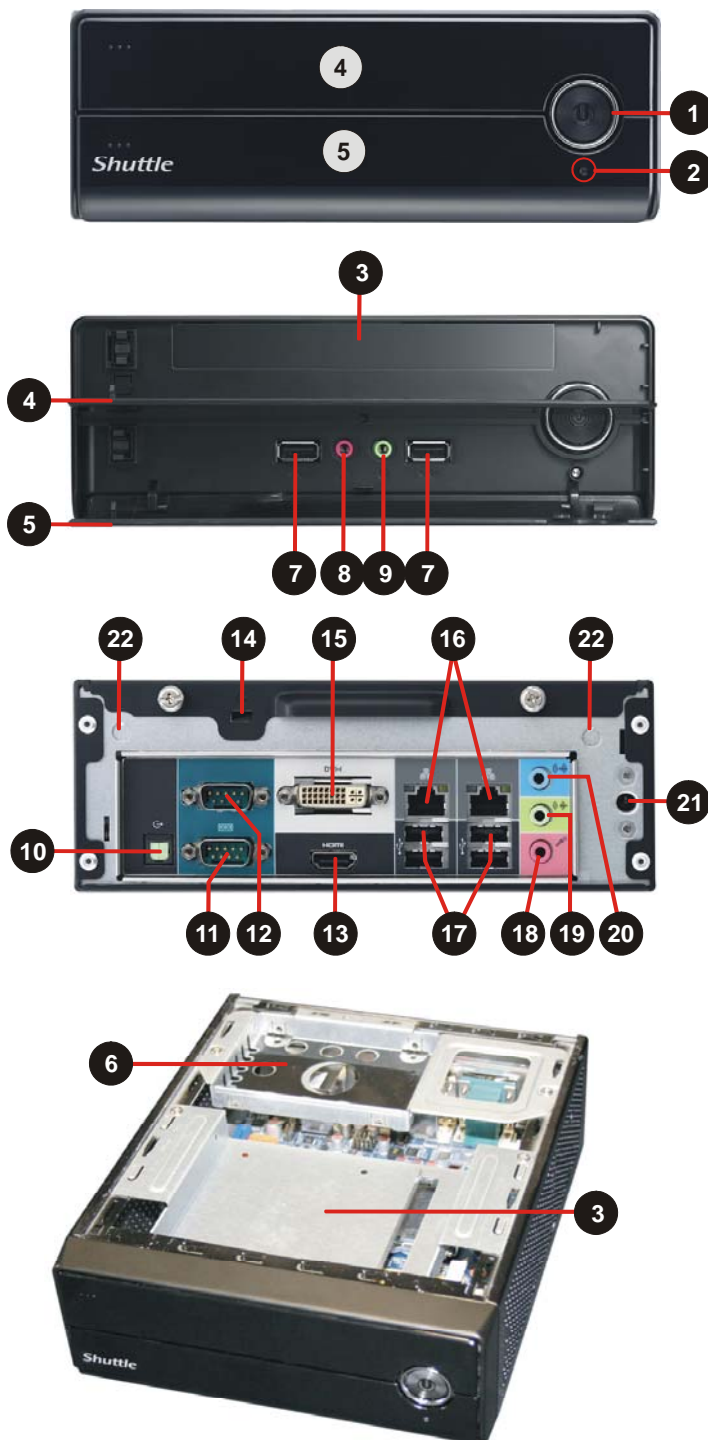
Shuttle Slim PC X 4100B – Mainboard

Back Panel Connectors



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Shuttle Slim-PC X 4100B – Front and Back Panel



Front Panel

- 1 Power Button
- 2 Power LED
- 3 Bay for optical Slim DVD drive
- 4 Front door for DVD drive
- 5 Front door for I/O connectors
- 6 Bay for 2.5" hard disk drive (a second 2.5" device can be installed underneath)
- 7 2x USB 2.0 ports
- 8 Microphone input
- 9 Headphone output

Back Panel

- 10 S/PDIF – digital audio output
- 11 RS232 / RS422 / RS485 serial port COM1
- 12 RS232 serial port COM2
- 13 HDMI – dig. video/audio output
- 14 Hole for Kensington Lock
- 15 DVI-I – digital video output (supports VGA with opt. Adapter)
- 16 2x Gigabit network ports (RJ45)
- 17 4x USB 2.0 ports
- 18 Microphone input
- 19 Headphone / line-out
- 20 Audio line-in
- 21 Connector for the power adapter
- 22 Perforation for WLAN antenna (x2)



Power over COM port
 Pin 9 of each serial port can be configured as power supply with 5V or 12V (depending on JP7 jumper setting).