

XG41 - More performance for the Nettop

The ultra-compact Shuttle Slim-PC Barebone XG41 is the ideal basis of your new slim-line nettop PC. Together with a socket 775 processor, it offers significantly higher CPU performance than other nettop PCs. XG41 comes up with DVI and HDMI video outputs, dual Gigabit LAN ports and dual COM ports. It also packs support for standard DDR3 memory, 2.5 inch hard disk and slim-line optical drive. It also scores with an elegant design with coated surfaces and mirrored drive doors. Measuring merely 3 liters in volume, around a tenth of the size of a traditional tower desktop PC, it is designed to provide the perfect balance between aesthetic sensibility and daily computing demands for homes and offices.

Shuttle Slim-PC Barebone **XG41**



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) • Bays: 1x 6.35cm/2.5", 1x slim optical drive
Processor	<ul style="list-style-type: none"> • Supports Socket 775 CPUs, max. 65W TDP • Core 2 Duo, Pentium, Celeron
Chipset	<ul style="list-style-type: none"> • Intel G41 Express+ ICH7 Chipset
Memory	<ul style="list-style-type: none"> • 2x 240 pin DDR3-800/1066, max. 2x 4 GB • Upward compatible e.g. with DDR3-1333
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
Drive Connectors	<ul style="list-style-type: none"> • 3x SATA II (3 Gbit/s) • Two pre-installed SATA cables
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
Application	<ul style="list-style-type: none"> • Basic home and office applications



Product name: **XG41**
Order no.: **PIB-XG41011**

Images for illustration purposes only.
The optical drive and the vertical stand are not included.

Shuttle Slim-PC Barebone XG41 – Product Features



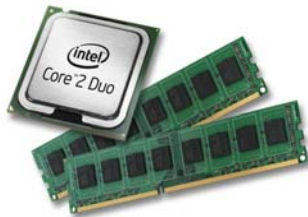
The new 3-litre chassis - a clean and modern look

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 XG41 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.



What does Barebone mean?

The Shuttle Slim-PC Barebone XG41 consists of a stylish case with pre-installed mainboard, cooling system and external power adapter. Despite its small form factor it offers outstanding connectivity, functionality and performance. For a complete Mini-PC system, a few components still need to be added. The Mini-PC is customisable and takes socket 775 processors, standard DDR3 memory, slim-line SATA DVD drive, 2.5" hard disk (or SSD). Once the desired operation system is installed, the XG41 is ready to use. Moreover, the system features pre-routed cables that are tied down from factory to reduce clutter, increase airflow and ease component installation.



Supports socket 775 processors and up to 8 GB DDR3

A wide range of socket 775 Intel processors is available starting from Celeron up to Core-2 processors with a maximum TDP of 65W. Plus, the system memory can be installed according to individual needs up to a maximum capacity of 8GB DDR3 memory.



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.



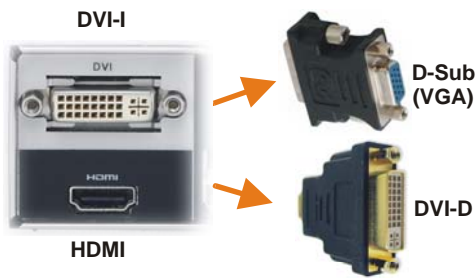
Dual Gigabit LAN Network

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 XG41 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. XG41 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.

XG41 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

XG41 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)

XG41 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 Barebone XG41 Specifications

<i>Chassis</i>	<p>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</p>
<i>Drive Bays</i>	<p>1x for optical drive in slimline format with 12.7 mm height 1x 6.35cm/2.5" for hard disk with 9.5 mm height For this configuration with optical drive and 2.5 drive you will find pre-installed SATA cables and mounting screws. Optionally, you can also install further 2.5" drives: - underneath the 2.5" drive rack - instead of an optical drive Note: if you want to install more than one 2.5" drive, you need additional SATA cables and screws.</p>
<i>Mainboard</i>	<p>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</p>
<i>Power Supply</i>	<p>External 90W power adapter (fanless) Input: 100~240V AC, Output: 19V DC, 4.74A, max. 90W Internal DC-DC daughter board (CP19)</p>
<i>Processor Support</i>	<p>Socket 775 Supports Intel Core 2 Duo, Pentium Dual Core, Celeron Dual-Core, Celeron 4xx Supports 800, 1066 or 1333 MHz front side bus (FSB) Maximum power consumption: TDP = 65W max. Please refer to the support list for detailed processor support information.</p>
<i>Heatpipe Sooling</i>	<p>Processor cooling with heatpipe technology and two fans (6cm)</p>
<i>Memory Support</i>	<p>2x 240 pin DIMM slots Supports DDR3-800/1066 standard desktop memory modules Memory modules that are designed for higher frequencies can also be used. Maximum capacity: 4 GB per module, 8 GB total size</p>
<i>Expansion Slots</i>	<p>1x Mini-PCI-Express X1 (for optional WLAN module)</p>

<p><i>Integrated Graphics</i></p>	<p>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>
<p><i>Audio</i></p>	<p>Audio Realtek® ALC 662 5.1-channel High-Definition Audio Three analog audio connectors (3.5mm) at the Back-Panel: 1) Front Line out (headphone) 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>Gigabit LAN Controller</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>Drive Connectors</i></p>	<p>3x Serial-ATA II, 3 Gb/s (300 MB/s) bandwidth, Note: This barebone comes with two pre-installed SATA cables for a 2.5" hard disk and for an optical slim drive.</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>Other Onboard Connectors</i></p>	<p>2x USB 2.0 (2x5 pin header) - occupied by the front panel USB ports 20+4 pin ATX power supply connector 2x fan connectors (3 pin and 4 pin) Header for Clear CMOS function (3 pins)</p>

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<p><i>Accessories</i></p>	<p>Multi-language user guide 32-bit / 64-bit Driver DVD 2x cable for SATA (preinstalled) External power adapter with power cord Heatpipe cooling system (preinstalled) Heatsink compound Screws Optional accessory: vertical stand</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**

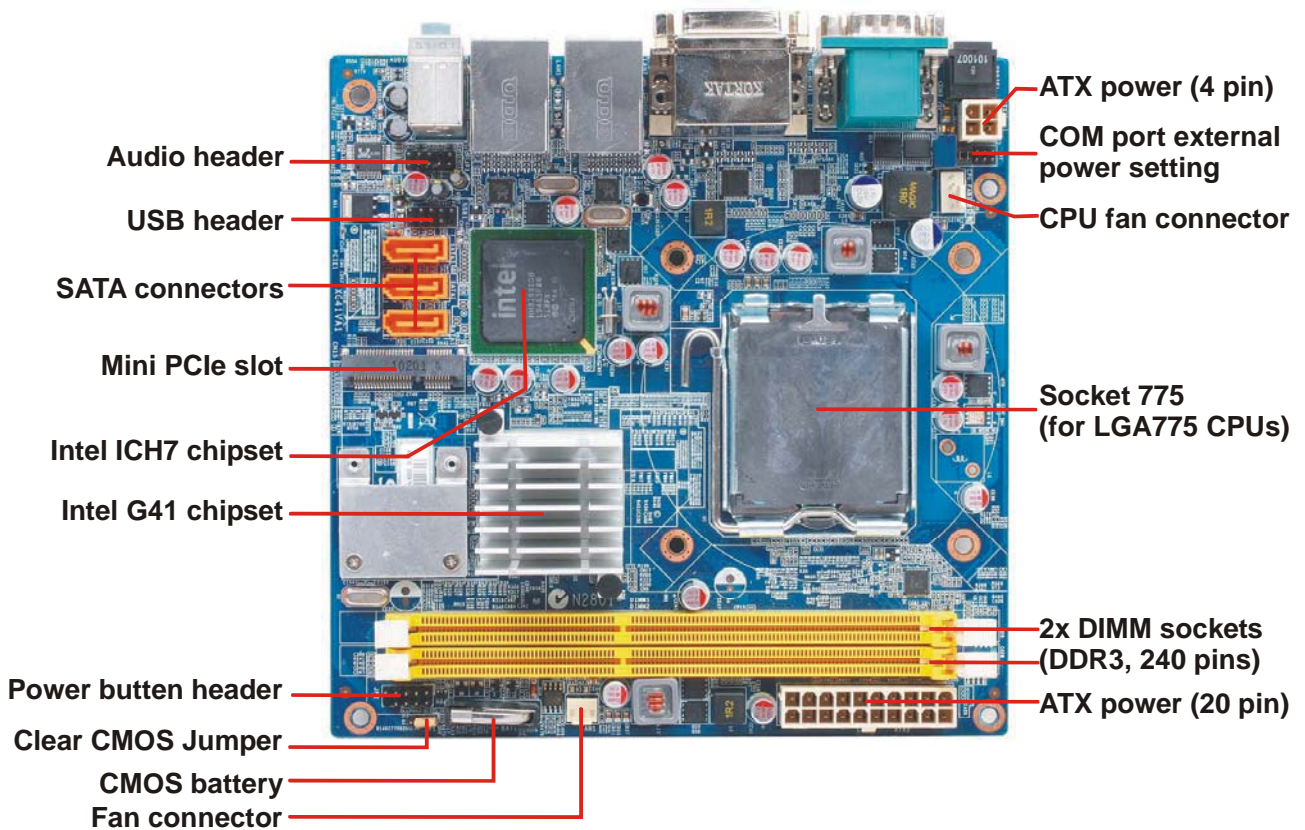
The shared memory size is dynamically controlled by VGA driver, and the Max. shared memory size will be available only when 4GB or more memory is installed under 64-bit OS.

*****) 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.

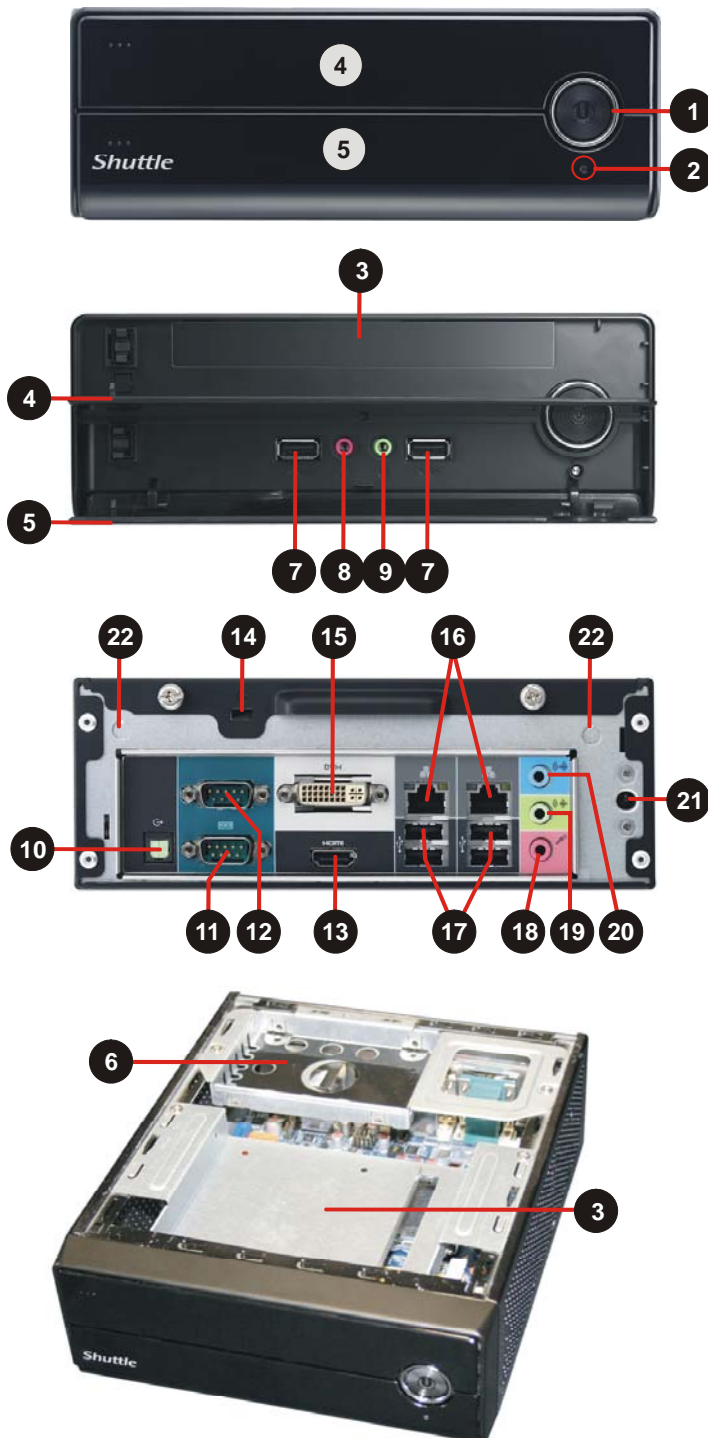
Shuttle Slim-PC Barebone XG41 – Mainboard

Back Panel Connectors



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Shuttle Slim-PC Barebone XG41 – 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).

Shuttle Slim-PC Barebone XG41 – Required Components

The following components need to be added to make it a fully-configured Mini-PC:



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