

The High-Definition Platform for the highest requirements

The spread of HD-compatible flat screens is continuing. In this Mini-PC Barebone you will find your ideal partner to digitally transfer images and sound at the highest quality through the HDMI interface. This Mini-PC made of aluminium easily meets the highest of standards in the playback of films on Blu-ray media and the Intel G45 Express chipset enables the use of the latest Multi-Core processors. Away from the high-definition playback, this platform can also be used to run very routine applications at maximum speed.

Glamor xPC Barebone SG45H7



Note: optical drive sold separately. Images for illustration purposes only.

Feature Highlight

H7 chassis	<ul style="list-style-type: none"> Black aluminum chassis Drive bays: 1x 5.25", 2x 3.5"
Chipset	<ul style="list-style-type: none"> Intel P45 Express + ICH10
Graphics	<ul style="list-style-type: none"> Intel GMA X4500HD, DirectX 10, SM 4.0 Supports up to 384MB shared memory Output: VGA and HDMI (HDCP, 1080p)
CPU	<ul style="list-style-type: none"> Socket 775 Supports Intel Core 2 Quad/Extreme/Duo, Pentium Dual-Core, Celeron 4xx Supports 45 und 65nm CPUs Supports 1333, 1066 and 800MHz FSB Shuttle I.C.E. Heat-pipe cooling system
Slots	<ul style="list-style-type: none"> 1x PCI-Express x16 (v2.0), 1x PCI
Memory	<ul style="list-style-type: none"> Supports 4x DDR2-667/800 Up to 8 GBytes total size
Drive connectors	<ul style="list-style-type: none"> 3x SATA (internal) 3x External SATA (1x front, 2x rear) 1x IDE ATA 133, 1x floppy disk drive
Other connectors	<ul style="list-style-type: none"> 7.1-ch HD-audio, SPDIF output Firewire, GigaBit LAN USB 2.0 (2x front, 4x rear, 4x onboard)
Power supply	<ul style="list-style-type: none"> 300 Watt mini power supply (80 PLUS)
Application	<ul style="list-style-type: none"> Home-Media

Product ID: SG45H7
UPC (see bar code)



4x DDR2



Shuttle XPC Barebone SG45H7 – Special Product Features

Glamor
XPC



PCI
EXPRESS

The Shuttle XPC Glamor series is the keyword in artistic design from Shuttle.

There are different chassis designs to choose from. No matter whether it's for use in the home or the office, for high adrenaline or laid back users, there is a Shuttle XPC in the Glamor series to suit every taste. The front panel and cover of the H7 chassis is completely made of aluminum. This leads to a stylish appearance and makes it to a popular design for many users.

Supports Quadcore, 1333 MHz FSB and 45nm processors

This Shuttle product supports the Intel® Core™ 2 Duo and Intel® Core™ 2 Quad processors with up to 1333 MHz front side bus and the new power-saving 45nm technology. Multi core brings multi power!

Integrated Cooling Engine (I.C.E.)

Shuttle's XPCs offer the power of a desktop PC in a form factor one-third the size. In order to ensure proper airflow inside a smaller unit, more advanced cooling technologies have been developed and implemented in the Shuttle XPC. Shuttle's industry-leading I.C.E. heatpipe technology delivers efficient cooling and is exceptionally quiet.

Built-in Intel GMA X4500HD Graphics Engine

The next-generation Intel® Graphics Media Accelerator X4500HD (Intel® GMA X4500HD) includes built-in support for full 1080p high-definition video playback, including Blu-ray disc movies. This powerful video engine provides users with a rich, new media experience to deliver smooth HD playback without the need for add-in video cards or decoders. Intel® GMA X4500HD comes with Intel® Clear Video Technology, a combination of video processing hardware and software technologies designed to enhance the visual experience. In addition to video, the optimized 3D graphics engine supports DirectX 10, Shader Model 4.0 and OpenGL 2.0 and delivers the performance and compatibility you need for entertaining, everyday gameplay for the most popular game titles.

Dual View Technology with HDMI and VGA

Dual View technology offers multiple display support on up to two separate monitors. This improves the capabilities and productivity of the user by allowing them to spread multiple windows over two monitors and view them simultaneously. The integrated Intel graphics processor delivers best-in-class 3D performance and leading graphics compatibility to play top games the way they are meant to be played.

PCI-Express V2.0 for high-performance graphics cards

The Shuttle XPC Barebone SN78SH7 is equipped with one PCI-Express x16 Version 2.0 slot delivering a bandwidth of up to 16GB/s, twice the speed of PCI-E 1.0, thus providing plenty of potential for the newest graphics cards. It is downward compatible, allowing use for most of the present graphics cards as well.

300W **80 PLUS**

80 PLUS® Certified Power Supplies

The 80 PLUS® performance specification requires power supplies in computers and servers to be 80% or greater energy-efficient. The Shuttle XPC Barebone SG45H7 features a powerful 300W power supply with 80 PLUS® validation as standard.



Supports 2x SATA + 2x eSATA

Two SATA hard disks can be installed in the Shuttle XPC Barebone SG45H7. In addition, two further hard disks can be connected to the PC using its eSATA ports for three times faster speeds as known from the USB 2.0 standard.



New Era of All-Solid Capacitor Shuttle Mainboards

By using all-solid capacitors Shuttle mainboards provide industry leading stability, reliability and longevity for PC gaming and entertainment systems. The average lifespan for a solid capacitor is more than six times greater than the more common and less expensive electrolytic capacitors.



Color slots design

Easily recognize color codes provides an easier way to install the devices such as Power switch, USB, PCI-E, PCI, DDR2.



Supports Windows Vista Premium

Breathtaking Windows Aero™ 3D visual interface and a host of groundbreaking new features, Windows® Vista™ Premium promises to deliver a streamlined computing experience designed to fundamentally change how users view, find and organize their digital information.



Shuttle XPC Accessory

Shuttle offers a wide variety of accessories for XPC barebones and complete systems such as WLAN modules or expansion kits. The XPC carrying bag is also a popular accessory - it is the ideal solution for LAN party gamers and business people, who need to transport their XPC.

Shuttle XPC Barebone SG45H7 Specifications

Chassis	H7-type aluminum chassis, color: black storage bays: 1 x 5.25", 2 x 3.5" (1 internal) stealthed drive doors Dimensions: 32.5 x 20.8 x 18.9 cm (LWH), Weight: 3.6 kg net / 5.0 kg gross
Mainboard	Shuttle FG45, Shuttle form factor, proprietary design for XPC SG45H7 Chipset: Intel P45 Express (MCH) + ICH10 (I/O Controller Hub) Solid Capacitors for excellent heat resistance for enhanced system durability
Power Supply	300 Watt mini PSU, AC input voltage: 100~240V 80 PLUS® certified (80% or greater energy-efficient) Active PFC circuit (Power Factor Correction) Dimension: 190 x 82 x 43 mm (LWH)
Processor Support	Socket 775 supports Intel processors with Core Technology Supports 1333, 1066 or 800MHz front side bus (not 533MHz) Supports Intel Core 2 Quad, Core 2 Duo, Pentium Dual-Core, Celeron Dual-Core, Celeron 4xx Supports 65nm and 45nm processors Please refer the support list for detailed processor support information. Mainboard BIOS supports Dynamic Overclock *) **)
Processor Cooling	Shuttle I.C.E. (Integrated Cooling Engine) advanced I.C.E. Heatpipe technology, linear controlled 92mm fan SilentX cooling and noise reduction technology with Active Airflow
Memory Support	4 x 240 pin slots, supports Dual Channel supports DDR2-667/800 SDRAM memory max. 2 GB per DIMM, up to a total size of 8 GB
Integrated graphics	Intel® Graphics Media Accelerator (GMA) X4500HD 256-bit 3D engine with a powerful 400MHz core Supports full 1080p high-definition video playback including Blu-ray disc movies Supports Intel® Clear Video Technology Supports MS DirectX 10, Shader Model 4.0 and OpenGL 2.0 Supports Dynamic Video Memory Technology 3.0 (DVMT) Supports up to 384MB of video memory (Shared memory) Analog VGA and digital HDMI connector in the back panel HDMI supports HDCP (High Definition Content Protection) HDMI-to-DVI-Adapter included
Expansion Slots	1x PCI-Express v2.0 slot Supports Dual-slot (double-width) graphics cards 1x PCI 32 bit slot
8-channel Audio	7.1 channel High Definition Audio with Realtek ALC888 codec analog: line-out (8-ch), line-in, microphone, CD-in, AUX digital: optical S/PDIF-out

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<i>Gigabit-LAN Controller</i>	Marvell 88E8056 Ethernet network controller With PCI Express interface IEEE 802.3u 1000Base-T compliant Supports 10 / 100 / 1.000 MBit/s operation Supports Wake-on-LAN
<i>Firewire-Controller</i>	IEEE1394 Firewire controller TI TSB43AB22A Complies with 1394 OHCI specification revision 1.0 1x 6pin Firewire connector at the backpanel Supports 400Mb/s, 200Mb/s, 100Mb/s data transfer rate
<i>Drive connectors</i>	Serial-ATA II, 3 Gb/s (300 MB/s) bandwidth 3x internal (SATA) plus 3x external (eSATA) 1x IDE ATA 100 drives 1x floppy disk drive
<i>Front panel connectors</i>	Microphone Headphone (Line-out) 2x USB 2.0 External Serial ATA Hotplug (eSATA) Power button Reset button Power indicator (blue LED) HDD indicator (orange LED)
<i>Back panel connectors</i>	HDMI (digital video out, DVI via adapter) D-Sub VGA (analog video out) 4x USB 2.0, Firewire (6 pin), GigaBit LAN (RJ45) 2x External Serial ATA Hotplug (eSATA) 8-ch Audio line-out (2x rear/front, bass/center, surround/back) Audio Line-in, Digital Audio: optical S/PDIF output Clear CMOS button
<i>Optional Back panel connectors</i>	Wireless LAN Antenna (Perforation for PN20) PS/2 Mouse & Keyboard (Perforation for PS10) Parallel port (Perforation for PC8)
<i>Other connectors</i>	6x USB 2.0 (three sets with 2x5 pins) 2x fan connectors (4 pins and 3 pins) Headers for PS/2 mouse and PS/2 keyboard
<i>Accessories</i>	XPC Installation Guide XPC 32/64bit Driver CDROM for Windows XP/Vista Data cables: floppy, PATA, SATA, eSATA (PATA/SATA preinstalled) HDMI-to-DVI-Adapter Power Cord, Screws, Heatsink Compound

***) Overclocking Warning**

Please note there is a certain risk involved with overclocking, including adjusting the setting in the BIOS or using third-party overclocking tools. Overclocking may affect your system stability or even cause damage of the components and devices of your system. It is done at your own risk and expense. Shuttle cannot be held responsible for possible damage caused by overclocking.

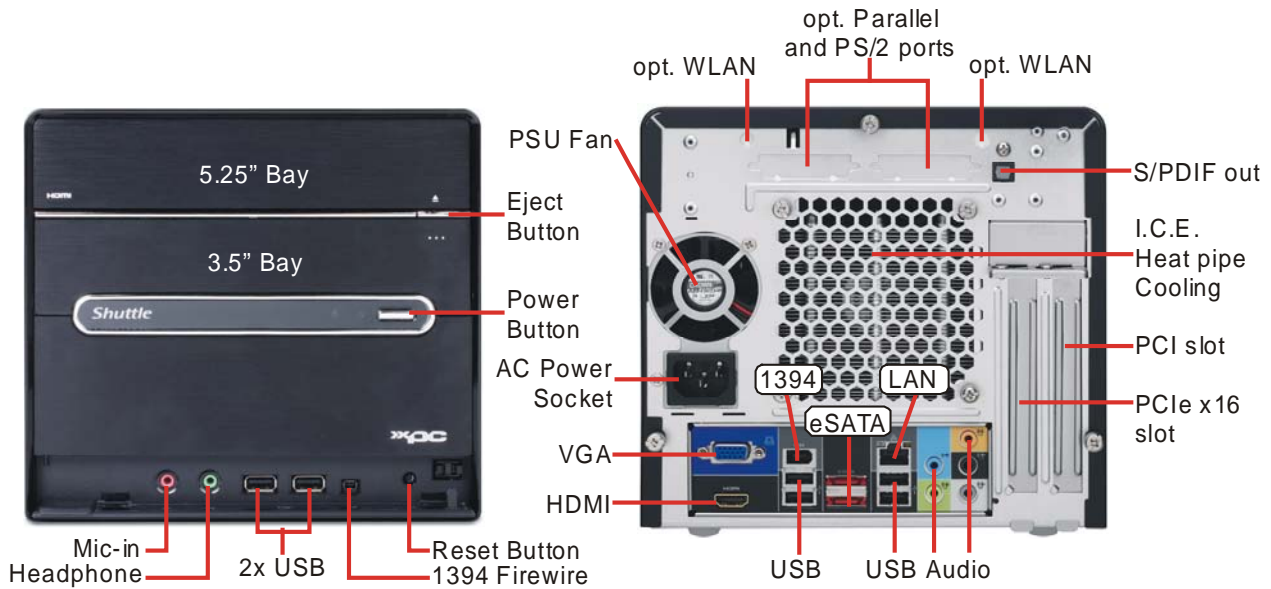
****) Dynamic Overclocking Technology (D.O.C.)**

This is the overclocking function in the BIOS Setup, which is designed to detect the load balance of CPU while running programs, and to adjust the best CPU frequency automatically. When the mainboard detects CPU is running programs, it will speed up CPU automatically to make the program run smoothly and faster. When the CPU is temporarily suspending or staying in the low load balance, it will restore the default settings instead.

Shuttle XPC Barebone SG45H7 – Connectors and Components

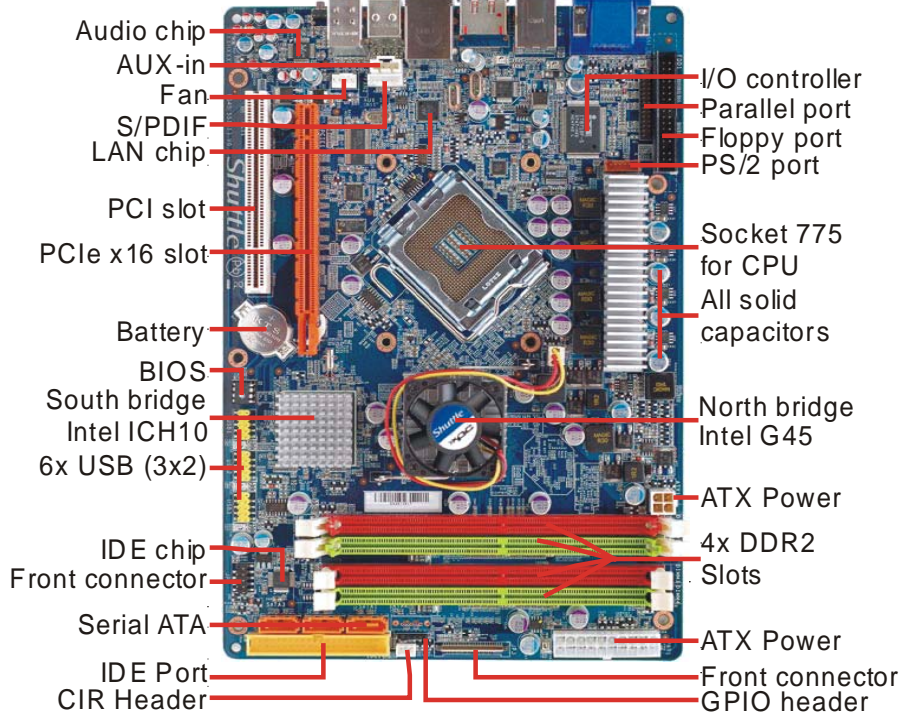
Front Panel

Back Panel



Back panel

Mainboard



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