

www.shuttle.eu



 Product Overview

Shuttle[®]

Welcome to the world of Mini-PCs ...

The Shuttle XPC is a fully-fledged Desktop-PC in a Mini-PC format

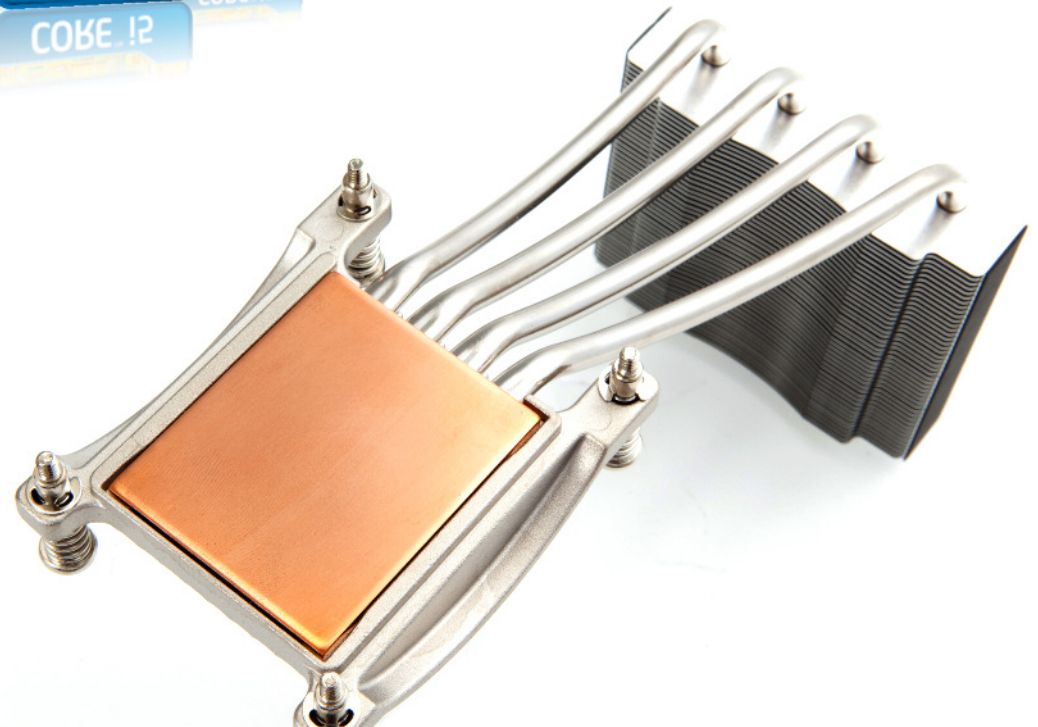
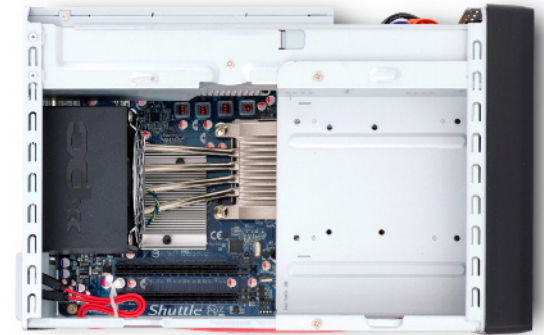
- ✓ **Compact and stylish**
 - ▶ Only about 13 litres in volume
 - ▶ Three times smaller than conventional Desktop-PCs
 - ▶ Stylish design, top-quality workmanship, aluminium cases

- ✓ **Supports powerful Desktop processors**
 - ▶ Supports high-end processors
 - ▶ Varied choice of processors and chipsets

- ✓ **Simple installation**
 - ▶ Many cables already pre-routed
 - ▶ Clear installation instructions

- ✓ **Heatpipe cooling system**
 - ▶ Efficient heatpipe cooling system*
 - ▶ Regulated fan speed
 - ▶ Intelligent airflow control

- ✓ **Wide range of connection options**
 - ▶ High connectivity comparable to large Desktop-PCs
 - ▶ Supports two hard disks and one optical drive (standard components)



Barebone – or complete system? The choice is yours!

What is a barebone?

All Shuttle PC products are available as barebone or complete systems. Barebones look like full PCs, but still must be fitted with various components (e.g. memory, drives, processor and software) before initial use as shown in the illustration:

► Processor



► Memory



► Hard disk



► Graphics card*



► Optical drive



► Operating system



Cooling system



+

Power supply unit



+

Cable



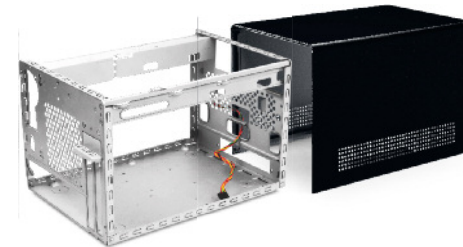
+

Mainboard



+

Case



↓

**Complete
Shuttle XPC**



Mini-PCs are frequently underestimated ...

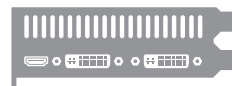
Shuttle Mini-PCs form basis for top-spec gaming PCs

Shuttle Mini-PCs form basis for top-spec gaming PCs

Shuttle XPCs use the same chipsets and Desktop components as standard large-format PCs. Despite the small case dimensions, the listed XPC models support large-format dual-slot graphics cards with lengths of up to 26.7 cm (for the H series) or 27.3 cm (for the R series).



Single-slot graphics card



Dual-slot graphics card

Example configuration with the latest high-end components

- ▶ Shuttle XPC Barebone SX79R5 **Top XPC!**
- ▶ Intel Core i7-3960X Extreme Edition with 3.46 GHz **Top 6-core processor!**
- ▶ AMD Radeon HD 6970 with 2 GB GDDR5 **Top graphics card!**
- ▶ 4x 8 GB DDR3-1333 RAM (total = 32 GB)
- ▶ 64 GB mSATA-SSD
- ▶ 2x 3 Terabyte hard disks (total = 6 TB) in RAID 0 or 1
- ▶ Blu-ray writer

Does the built-in power supply unit support my graphics card?

Shuttle uses efficient power supply units that are specifically tailored to the maximum power requirements of an XPC and provide the precise performance that they effectively need. For instance, a 300 W supply unit has the capacity to power an ATI Radeon HD 5770 graphics card. Shuttle XPCs offer reliable and stable operation with all the components shown in the relevant compatibility lists.

See: <http://global.shuttle.com>



XPC power supply units and power connectors for graphics cards

If the power consumption of a graphics card exceeds 75 W, the energy requirements cannot be met via the PCI-Express slot on its own and the power supply unit needs to provide one or even two additional power connectors coupled to relevant graphics cards. You therefore need to check the power connectors and the compatibility list to find out whether the desired graphics card is compatible.



Graphics card with one 6-pin power connector



Graphics card with two 6-pin power connectors

Order custom configured Mini-PC products ...

Configure Shuttle complete systems online at www.shuttle.eu/systems

With the "Shuttle Systems Configurator" you can create your desired turnkey systems based on a Shuttle Barebone product. After selecting the required hardware components and Windows 7 version, you can request a non-binding quotation from an authorised dealer of your choice.

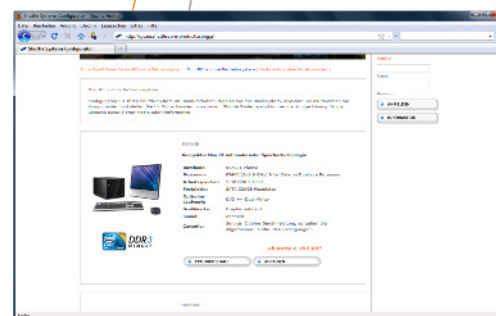
Shuttle® SYSTEMS CONFIGURATOR

It's easy to use and has lots of benefits

- ▶ Original Shuttle complete system
- ▶ Custom configuration (built-to-order)
- ▶ Manufactured and tested directly by Shuttle in Germany
- ▶ 24-month Pick-Up-And-Return service for Windows-based complete systems
- ▶ Many Windows 7 operating systems as Shuttle OEM version
- ▶ Free Service Hotline
- ▶ Free shipping

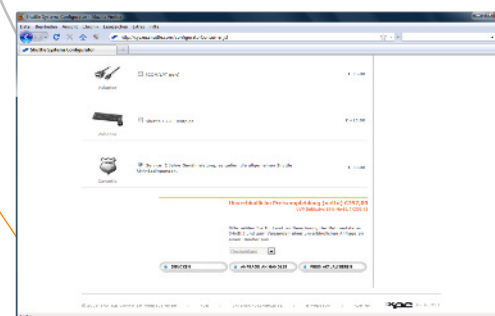


▲ Select product category ▼



◀ Find your desired product

▼ Configure and send request for quotation ▼



Other compact PC products from Shuttle ...

Energy-saving solutions with Intel Atom processor



Nettop or All-in-One

- ▶ Slim-PC (only 1.1 to 1.5 litres)
- ▶ All-in-One-PC with 39.6 cm (15.6") touchscreen



100% fanless

- ▶ No fan noise
- ▶ Ideal for noise-sensitive areas
- ▶ Maintenance-free, passive cooling



Atom dual-core processor

- ▶ Intel Atom processor (D2700 or D525)
- ▶ Dual-Core + Hyper-Threading allows for four threads to be processed simultaneously
- ▶ Power consumption only max. 10 to 13 W



Energy-saving

- ▶ Consumption only approx. 20-30 W
- ▶ Electricity costs only about € 12,- per year based on a normal 8-hour working day



More information on the makers of these unique products

About Shuttle

Established in Taiwan in 1983, Shuttle Inc. specialises in the development and production of innovative Mini-PCs. The stock market listed company is represented globally through subsidiaries in Germany, the USA, China and Japan. Since 2001 the attractive cuboid PCs designed for virtually every application area have been the main business area for Shuttle. New models with state-of-the-art chipsets, new case designs and technical innovations are regularly launched on the market. The product range has recently been expanded to include All-in-One-PCs and Slim-PCs (nettops).

Contact details

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5 · 25337 Elmshorn · Germany
Telephone +49 (0)4121-476 860 · Email: sales@shuttle.eu



www.facebook.com/Shuttle.Europe



www.youtube.com/SCHgermany



[@shuttle_europe](https://twitter.com/shuttle_europe)

Milestones

- 2011 ▶ Shuttle launches the world's fastest Mini-PC
- 2010 ▶ Shuttle launches its first 1-litre PC (fanless)
- 2009 ▶ Shuttle starts to use new production facilities in China
- 2009 ▶ Shuttle starts development and production of OEM notebooks
- 2009 ▶ Shuttle launches its first All-in-One-PC (fanless)
- 2008 ▶ Shuttle launches Mini-PC with integrated touchscreen
- 2006 ▶ Shuttle launches its first 3-litre PC
- 2005 ▶ Shuttle opens branch office in China
- 2005 ▶ Shuttle launches its first Media-Center XPC
- 2005 ▶ First Mini-PCs in the world with two graphics cards in SLI mode
- 2005 ▶ Tom's Hardware awards Shuttle 'Best SFF PC Maker'
- 2004 ▶ Shuttle introduces XPC complete system solutions
- 2004 ▶ Establishes Japan branch office
- 2004 ▶ Over one million XPCs shipped
- 2002 ▶ Introduces the patented "I.C.E." heatpipe cooling system
- 2001 ▶ Launches first Shuttle XPCs
- 2000 ▶ ISO-14001 certification
- 2000 ▶ Shuttle Inc. becomes publicly listed company (TAIEX: 2405)
- 1999 ▶ ISO-9001 certification
- 1998 ▶ Develops the world's first 17x17cm motherboard for OEM market
- 1997 ▶ Establishes 3500 m² production facilities in Taoyuan, Taiwan
- 1995 ▶ Shuttle recognized as the world's 5th largest mainboard maker
- 1995 ▶ ISO 9002 and TÜV certification
- 1990 ▶ Shuttle Computer Handels GmbH established in Germany
- 1988 ▶ Shuttle Computer Group, USA established
- 1984 ▶ Begins manufacturing motherboards in Taoyuan, Taiwan
- 1983 ▶ Shuttle Inc., Taiwan established (formerly Holco)



H7

Here black-clad elegance combines with perfect workmanship. All front ports and drives are concealed, only to be revealed when the individual flaps of the front panel are opened. The H7 models boast a distinctive history and have evolved to perfection.

H7-design models: SX58H7 Pro, SH67H7

H3

Shuttle Mini-PCs in H3-design have retained the classic features. All ports and drives are instantly accessible. The case design itself is oriented to the first XPCs which are even now still among the most sought-after models thanks to their timeless exterior. The H3-design embodies an extremely successful revival.

H3-design models: SH67H3



R4

Shuttle XPCs in R4-design offer incredible value for money. The special feature of these models is the front panel which is available for your personal design. Therefore simply remove the four screws, and a sheet of paper with a design produced on a standard printer can be inserted. Ideal for logos, photos and information. A PC that is as individual as you are.

R4-design models: SH61R4, SA76R4





R5

Purist shapes and clean lines dictated the development of the R5 design. Impressive Mini-PCs with remarkable features are the result. Small visual and technical masterpieces that will suit discerning users with a weakness for style down to the ground.

R5-design models: SZ68R5, SX79R5



Shuttle

XG41

XH61

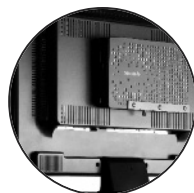
At first glance, these machines of the 3-litre class of Mini-PCs that measure barely 7 cm in height may appear plain. But a look at the technical data of these small powerhouses presents them in a completely different light. Processors that are normally found only in large PCs paired with plenty of memory, a host of ports and practical accessories offer a convincing package right from the outset.

Models in the Slim-PC format: XG41, XH61





XS35

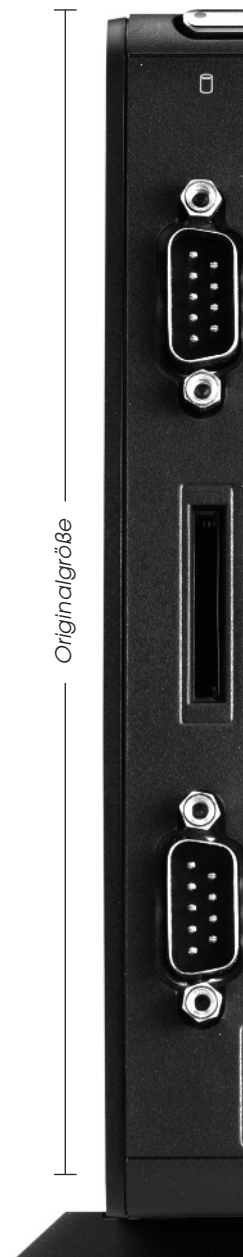


Small, smaller, Slim-PCs from Shuttle. The thinnest models our company produces are distinguished by their compact 1-litre format with a width of just 38 mm and a completely passive (fanless) cooling system. They are noiseless, even when the operational demands on them are high – and the absence of any fan reduces the maintenance required, too. Clever.

Models in the Slim-PC format: XS35 series, XS36 series

XS36

Originalgröße

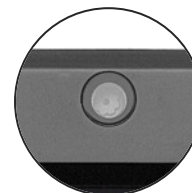




X50

All-in-One systems combine monitor and computer in a single device. To make these slim line PCs even more versatile, they come with an integrated webcam, set of speakers and microphone. A touch-sensitive screen makes it possible to dispense with the mouse and keyboard in many cases. Passive (fanless) cooling adds the final touch to this solution. Unless it is your favourite song belting out of the speakers, you'll hear nothing from this PC.





X70

Shuttle All-in-One-PCs come in a multitude of colours and sizes. Need more processing power or additional ports? We have got what you are looking for. Here.

Models in the All-in-One format: X50 series, X70 series



Shuttle® XPC Barebone SH61R4

Flexible, competitively priced Mini-PC for power-saving Intel CPUs

- ✓ **Customisable front panel for individual designs**
The front of the R4-design offers space for printed motifs (e.g. logos, photos, information)
- ✓ **LGA1155 socket for energy-efficient processors**
Supports the second generation of Intel Core processors (i3/i5/i7) as well as Pentium and Celeron
- ✓ **Up to 16 GB of DDR3 memory**
Two DIMM sockets with dual-channel mode
- ✓ **Uses the HD graphics function integrated into Intel CPUs****
Two DVI outputs (DVI-I & DVI-D) suitable for dual monitoring
If a PCIe-x16 graphics card is installed, even four monitors can be activated
- ✓ **Up to two hard disks and one optical drive**
Supports solid-state drives (SSD) and Blu-ray drives
- ✓ **Wide range of connection options**
USB 3.0, 5.1 Audio, PCIe-x1, Mini-PCIe, LAN, COM-Port (RS232)
- ✓ **Application-optimised**
Upscale entry-level home PC, desktop business PC, professional applications with COM port (optional)

Optional accessories: PC61J, PC63J, PHD3, H-RS232



Shuttle® XPC Barebone SH67H3

Well-balanced basis with a large application spectrum

- ✓ **Two front designs to choose from**
Open (H3) or with stylish front doors (H7)
- ✓ **LGA1155 socket for intelligent “Sandy Bridge” processors**
Supports the second generation of Intel Core processors (i3/i5/i7)
- ✓ **Up to 32 GB of DDR3 memory**
Four DIMM sockets with dual-channel mode
- ✓ **Supports dual-slot graphics cards**
Additional 6-pin power supply and PCIe-x16
- ✓ **Improved CPU-integrated Intel HD graphics function****
HDMI and DVI-I outputs support full HD and Blu-ray video and offer solid 3D performance
- ✓ **Up to two hard disks and an optical drive**
SATA 6 Gbit/s and RAID mode realise maximum data rates
- ✓ **Wide range of connectors**
SATA 6 Gbit/s, eSATA, USB 3.0, 7.1 Audio, S/PDIF, PCIe-x1, network, COM port (RS232)
- ✓ **Application-optimised**
Ideal home PC for multimedia, 3D games machine (with an appropriate graphics card installed), sophisticated business PC

Optional accessories: PC63, PHD3, H-RS232



Shuttle® XPC Barebone SZ68R5

High-end desktop chipset Intel Z68 Express with SRT (SSD-Caching)

- ✓ **LGA1155 socket for the fastest "Sandy Bridge" processors**
Supports the second generation of Intel Core processors (i3/i5/i7)
- ✓ **Up to 32 GB of DDR3 RAM**
Four DIMM sockets in dual-channel mode
- ✓ **Supports the biggest dual-slot graphics cards***
500W power supply with additional 6+8-pin power supply
- ✓ **Improved CPU-integrated Intel HD graphics function****
HDMI and DVI-I outputs support full HD and Blu-ray video and offer solid 3D performance
- ✓ **Up to two hard disks and one optical drive**
SSD drive or mSATA slot uses "Smart Response Technology" (SSD-Caching) for faster booting and program start-up
- ✓ **Wide range of connectors**
SATA 6 Gbit/s, eSATA, USB 3.0, 7.1 Audio, S/PDIF, PCIe-x4, Gigabit-LAN, COM port (RS232)
- ✓ **Smart USB for charging iPhone/iPad**
A USB port on the front with 2 Amp power feed is suitable for devices with high charging requirements (Quick Charge)
- ✓ **Performance-optimised**
Performance-enhancing adjustment options in BIOS
- ✓ **Application-optimised**
Premium PC for HD content, the latest 3D games (with appropriate graphics card), extraordinary workstation

Optional accessories: PHD3, H-RS232



Shuttle® XPC Barebone SX58H7 Pro

Mini-PC for Intel 6-core processors and high-end graphics cards

- ✓ **LGA1366 socket for high-end Intel Core i7 processors**
For example, model 990X, 3,46 GHz, 6 cores, 12 MB cache
- ✓ **Up to 16 GB of DDR3 memory**
Four DIMM sockets, supports triple-channel mode
- ✓ **Supports the biggest dual-slot graphics cards***
2x PCIe-x16-2.0 for two single-slot graphics cards or one large dual-slot graphics card
500W power supply with additional 6+8-pin power supply
- ✓ **Up to two hard disks and one optical drive**
SATA 6 Gbit/s and RAID mode allow for maximum data rates
- ✓ **Dual Gigabit-LAN**
Two interfaces in teaming mode, failure protection or have one PC connected to two different networks
- ✓ **Wide range of connectors**
SATA 6 Gbit/s, eSATA with power supply, USB 3.0, S/PDIF, 2x network
- ✓ **Application-optimised**
Extreme gaming, HD graphics / HD video workstation, file / database server, scientific calculator, mobile high-end PC

Optional accessories: PHD3



* Supports e.g. NVIDIA GeForce GTX 580, NVIDIA Quadro 5000 or AMD Radeon HD 6970, also note compatibility list and dimensions!

** The integrated video outputs cannot be used, if the processor installed does not have an integrated graphics function such as Intel Core i5-2380P, Core i5-2450P and Core i5-2550K

Shuttle® XPC Barebone SX79R5

Ultimate performance:
The world's only Mini-PC
for Sandy Bridge-E CPUs

- ✓ **LGA2011 socket for Sandy Bridge-E processors**
e.g. Core i7-3960X, 3.3 GHz, 6 cores, 15 MB cache
- ✓ **Up to 32 GB of DDR3 memory**
Four DIMM sockets in quad-channel mode
- ✓ **Supports the biggest dual-slot graphics cards***
2x PCIe-x16-3.0 for two single-slot graphics cards
or one large dual-slot graphics card
500W power supply with additional 6+8-pin power supply
- ✓ **Up to two hard disks and one optical drive**
SATA 6 Gbit/s and RAID mode allow for maximum data rates
- ✓ **Dual Gigabit-LAN**
Two interfaces in teaming mode, failure protection
or have one PC connected to two different networks
- ✓ **Wide range of connectors**
SATA 6 Gbit/s, eSATA with power supply, mSATA, USB 3.0, S/PDIF,
2x Gigabit-LAN
- ✓ **Application-optimised**
Extreme gaming, HD graphics / HD video workstation,
file / database server, scientific calculator, mobile high-end PC

Optional accessories: PHD3, H-RS232



SH61R4 ►



SH67H3 / SH67H7 ►



SZ68R5 ►



SX58H7 Pro ►



SX79R5 ►



Shuttle® Barebone XG41

All-round Slim-PC
for versatile applications

- ✓ **Slim 7 cm 3-litre design**
Front drive doors conceal the optical drive and front ports
- ✓ **LGA775 socket**
Supports Intel Celeron, Pentium, Core 2 Duo / Quad processors
Maximum 65 W TDP
- ✓ **Up to 8 GB of DDR3 memory**
Two DIMM sockets with dual-channel mode
- ✓ **Integrated GMA X4500 graphics with two outputs**
HDMI and DVI-I outputs support dual monitoring
- ✓ **For quiet, energy-saving notebook drives**
Up to three 2.5" hard disks/SSDs
or an optical slimline drive with two 2.5" hard disks/SSDs
- ✓ **So compact, yet expandable**
Slot for Mini-PCIe-x1-2.0 expansion cards
- ✓ **Wide range of connectors**
5.1 Audio, S/PDIF, 2x Gigabit-LAN, 2x COM port (RS-232/422/485)
- ✓ **Application-optimised**
Space-saving home PC, business PC, professional applications
with dual LAN and COM port

Optional accessories: PS01, PV02



Shuttle® Barebone XH61

Strong processing power and
remarkable energy efficiency

- ✓ **Slim 7 cm 3-litre design**
Front drive doors conceal the optical drive and front ports
- ✓ **LGA1155 socket for effective processors**
Supports the second generation of Intel Core processors (i3/i5/i7)
as well as Pentium and Celeron
- ✓ **Up to 16 GB of DDR3 RAM**
Two DIMM sockets in dual-channel mode
- ✓ **Uses the HD graphics function integrated into Intel CPUs****
Two monitor outputs (HDMI & Sub-D) suitable for dual monitoring
- ✓ **For quiet, energy-saving notebook drives**
Space for a 2.5" hard disk/SSD and an optical slimline drive
- ✓ **Wide range of connectors**
7.1 Audio, PS/2, Gigabit-LAN
- ✓ **Application-optimised**
Powerful home PC, energy-efficient business PC

Optional accessories: PS01, PV02



* Supports e.g. NVIDIA GeForce GTX 580, NVIDIA Quadro 5000 or AMD Radeon HD 6970, also note compatibility list and dimensions!

** The integrated video outputs cannot be used, if the processor installed does not have an integrated graphics function such as Intel Core i5-2380P, Core i5-2450P and Core i5-2550K

Shuttle® Barebone XS35V3*

Suitable for continuous operation – fanless Slim-PC

- ✓ **Completely fanless, exceptionally quiet**
Practically noiseless and maintenance-free
- ✓ **State-of-the-art power-saving processor with two cores**
Intel Atom D2700 with 2x 2.13 GHz already mounted
- ✓ **HD-ready**
Intel GMA 3650 graphics with HDMI takes the strain off the processor in HD video playback
An additional D-Sub output allows for dual monitoring
- ✓ **Power-efficient**
Only 16 to 25 W – cool and reliable
- ✓ **Functions for reliable standalone operation**
Power fail resume, Always on, Wake-on-LAN (WOL)
- ✓ **DVD/Blu-ray drive possible**
Can be fitted with optical drive and 2.5" HDD/SSD
- ✓ **Application-optimised**
Point-of-sale PC, kiosk, office PC, thin client

Optional accessories: PV01, PHD2



Shuttle® Barebone XS35GTAV3**

Remarkable graphics performance, still entirely without a fan

- ✓ **Completely fanless, exceptionally quiet**
Practically noiseless and maintenance-free
- ✓ **State-of-the-art power-saving processor with two cores**
Intel Atom D2700 with 2x 2.13 GHz already mounted
- ✓ **Tiny: only 1.5 litre volume**
For more space, wherever it is set up
- ✓ **Fully HD-compatible**
AMD HD6430M graphics with HDMI supports smooth playback of 1080p videos and delivers 3D performance when required
An additional D-Sub output allows for dual monitoring
- ✓ **Power-efficient**
Only 16 to 27 W – cool and reliable
- ✓ **Optical drive possible**
Can be fitted with DVD or Blu-ray drive + 2.5" HDD/SSD
- ✓ **Application-optimised**
Home Media Center, kiosk, office PC, digital signage (presentation)

Optional accessories: PV01, PHD2



Shuttle® Barebone XS36V

Shuttle's smallest PC
comes fully-loaded

- ✓ **Completely fanless, exceptionally quiet**
Practically noiseless and maintenance-free
- ✓ **State-of-the-art power-saving processor with two cores**
Intel Atom D2700 with 2x 2.13 GHz already mounted
- ✓ **Up to 4 GB of DDR3 memory**
Two SO-DIMM sockets
- ✓ **Three monitor outputs for flexibility**
Intel GMA 3650 graphics with HDMI, DVI-D
and D-Sub offer a free choice of ports for dual monitoring
- ✓ **Power-efficient**
Only 16 to 25 W – cool and reliable
- ✓ **Functions for reliable standalone operation**
Power fail resume, Always on, Wake-on-LAN (WOL)
- ✓ **Wide range of connectors**
2x COM port (RS-232), internal USB port, card reader, network
- ✓ **Application-optimised**
Point-of-sale PC, kiosk, control PC

Optional accessories: PV03



XG41 ►



XH61 ►



XS35V3 / XS35GTAV3 ►



XS36V ►



* Also available as XS35V2 with Intel Atom D525 processor.

** Also available as XS35GTAV2 with Intel Atom D525 processor and AMD HD5430 graphics.

Shuttle® Barebone X50V3*

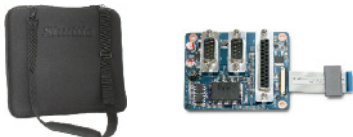
Extremely quiet, saving and compact All-in-One-PC with touchscreen (39.6 cm/15.6")

- ✓ **Quiet and frugal**
Fanless – virtually noiseless and maintenance-free
Only 20 to 27 W – cool and reliable
- ✓ **State-of-the-art energy-saving processor with two cores**
Intel Atom D2700 with 2x 2.13 GHz pre-installed
- ✓ **Practical and small**
Pedestal can also be used as a carrying handle,
case only 42 mm thin with very small PSU
- ✓ **VESA-compatible**
Suitable for 100 mm VESA mount
- ✓ **Serial and parallel ports (optional)**
For industry and business applications
- ✓ **HDMI and VGA connector**
For dual-monitoring
- ✓ **Further enhanced components**
Microphone, speakers (2 Watt), 2MP webcam for enhanced
audio-visual communication quality and media playback
- ✓ **Application-optimised**
POS system, health service communication centre, information
terminal, home automation and equipment control,
digital signage (presentation)

X50V3 ▼



Optional accessories: PF55, PCL69



* Also available as X50V2 Plus with Intel Atom D525 processor.

Mini-PC



Category		Basic	Home-Media
Model		SH61R4	SH67H3 / SH67H7
Colour		Black	Black
Complete system with Windows		R4 6100B, R4 6100BA	H3 6700H
Processor	Socket	LGA1155	LGA1155
	Support	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 95 W	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 95 W
	Cooling	I.C.E. Heatpipe	I.C.E. Heatpipe
Memory		2x 240 pin DIMM-slots, maximum 2x 8 GB DDR3-1333 Dual channel	4x 240 pin DIMM-slots, maximum 4x 8 GB DDR3-1333 Dual channel
Chipset	Northbridge	(Integrated in CPU)	(Integrated in CPU)
	Southbridge	Intel H61 Express	Intel H67 Express
	Audio	IDT 92HD89C (5.1 ch)	Realtek ALC888 (7.1 ch)
	Network	Realtek RTL 8111E (Gigabit), supports WOL and PXE	Realtek RTL 8111E (Gigabit), supports WOL and PXE
Integrated graphics function		Intel GMA HD in CPU, UMA max. 1.692 MB*, supports two displays**	Intel GMA HD in CPU, UMA max. 1.692 MB*, supports two displays**
Slots	Graphics card	1x PCI-Express-x16-2.0, supports dual-slot graphics cards, 6-pin power connection	1x PCI-Express-x16-2.0, supports dual-slot graphics cards, 6-pin power connection
	PCI	1x PCI-Express-x1-2.0, 1x Mini-PCI-Express-x1-2.0	1x PCI-Express-x1-2.0, 1x Mini-PCI-Express-x1-2.0
Ports, LEDs and buttons	Front	Microphone input, headphones output, 2x USB 2.0, Power LED, hard disk LED, On/Off button	Microphone input, headphones output, 2x USB 3.0, eSATA/USB 2.0 Combo, Power LED, hard disk LED, On/Off button, Reset button
	Rear	DVI-D, DVI-I (digital and analog), 2x USB 3.0 and 6x USB 2.0, Gigabit-LAN, Line-out, Line-in, Microphone, Clear CMOS button, opening for Kensington-Lock	HDMI (with Digital Audio), DVI-I (digital and analog), 2x USB 3.0 and 4x USB 2.0, eSATA, Gigabit-LAN, Audio 8-channel Line-out, Line-in, Optical S/PDIF output, Clear CMOS button
	Onboard	4x SATA 3 Gbit/s, serial port (RS-232)	2x SATA 6 Gbit/s, 2x SATA 3 Gbit/s, 2x USB 2.0, serial port (RS-232)
Drive bays and supported drives		1x 5.25" (for optical drive), 2x 3.5" internal (e.g. for hard disk, SSD)	1x 5.25" (for optical drive), 2x 3.5" internal + external (e.g. for hard disk, SSD, card reader), supports RAID 0, 1, 5, 10
Power supply		250W standard power supply, Input: 100-240 V AC 50/60 Hz	300W 80 PLUS Bronze, Input: 100-240 V AC 50/60 Hz
BIOS		AMI BIOS, supports ACPI 3.0 and UEFI	AMI BIOS, supports ACPI 3.0 and UEFI
Material		Aluminium	Aluminium
Dimensions and weight		32.5 x 21.5 x 19 cm (DWH) = 13.3 L, 3.2 kg	32.5 x 20.8 x 19.6 cm (DWH) = 12.8 L, 3.2 kg
Permitted ambient parameters		Operating temperature: 0-35 °C, Air humidity: 10-90%	Operating temperature: 0-35 °C, Air humidity: 10-90%
Optional accessories		2.5" HDD/SSD installation frame (PHD3), COM port (H-RS232), 300W power supply unit (PC61J), 500W power supply unit (PC63J)	2.5" HDD/SSD installation frame (PHD3), COM port (H-RS232), 500W power supply unit (PC63)

* The integrated graphics function is disabled when a graphics card is used. (e.g. Intel Core i5-2380P, Core i5-2450P and Core i5-2550K)

** Up to four displays are supported, if a PCI-Express-x16 graphics card is installed.

Mini-PC



Category		Performance	Performance	Performance
Model		SZ68R5	SX58H7 Pro	SX79R5
Colour		Black	Black	Black
Complete system with Windows		R5 6800P	H7 5820P	R5 7900P
Processor	Socket	LGA1155	LGA1366	LGA2011
	Support	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 95 W	Intel Core i7, Quad- and Hexa-Core	Intel Core i7, Sandy Bridge-E
	Cooling	I.C.E. Heatpipe	I.C.E. Heatpipe	I.C.E. Heatpipe
Memory		4x 240 pin DIMM-slots, maximum 4x 8 GB DDR3-1333 Dual channel	4x 240 pin DIMM-slots, maximum 4x 4 GB DDR3-1333 Triple channel (3+1)	4x 240 pin DIMM-slots, maximum 4x 8 GB DDR3-1600 Quad channel
Chipset	Northbridge	(integrated in CPU)	Intel X58 Express	(integrated in CPU)
	Southbridge	Intel Z68 Express	Intel ICH10R (RAID)	Intel X79 Express
	Audio	Realtek ALC888S (7.1 ch)	Realtek ALC888S (7.1 ch)	Realtek ALC888S (7.1 ch)
	Network	Realtek 8111E (Gigabit), supports WOL, PXE	2x Realtek 8111E (Gigabit), supports WOL, PXE, Teaming	2x Realtek 8111E (Gigabit), supports WOL, Teaming
Integrated graphics function		Intel GMA HD in CPU, UMA max. 1.692 MB*, supports two displays**	-	-
Slots	Graphics card	1x PCI-Express-x16-2.0, supports dual-slot graphics cards, 6-pin power connector	2x PCI-Express-16-2.0, supports 2x single-slot or 1x dual-slot graphics card, 6+8-pin power connector, ATI CrossFire, NVIDIA SLI support	2x PCI-Express-16-2.0, supports 2x single-slot or 1x dual-slot graphics card, 6+8-pin power connector, ATI CrossFire, NVIDIA SLI support
	PCI	1x PCIe-x4-2.0, 1x Mini-PCIe-x1-2.0, 1x mSATA	1x Mini-PCIe-x1-2.0	1x Mini-PCIe-x1-2.0, 1x mSATA
Ports, LEDs and buttons	Front	Microphone input, headphones output, 2x USB 3.0, 2x USB 2.0 (1x with Smart USB), power LED, hard disk LED, On/Off button, Reset button	Microphone input, headphones output, 2x USB 3.0, eSATA/USB 2.0 Combo, power LED, hard disk LED, On/Off button, Reset button	Microphone input, headphones output, 2x USB 3.0, 2x USB 2.0 (1x with Smart USB), power LED, hard disk LED, On/Off button
	Rear	HDMI (with Digital Audio), DVI-I (digital and analog), 2x USB 3.0 and 4x USB 2.0, eSATA, Gigabit-LAN, Audio 8-channel Line-out, Line-in, Optical S/PDIF output, Clear CMOS button	8x USB 2.0, 2x Gigabit-LAN, eSATA + power supply, Audio 8-channel Line-out, Audio Line-in, Optical S/PDIF output, Clear CMOS button	2x USB 3.0, 6x USB 2.0, 2x Gigabit-LAN, eSATA + power supply, Audio 8-channel Line-out, Audio Line-in, Optical S/PDIF output, Clear CMOS button
	Onboard	2x SATA 6 Gbit/s, 2x SATA 3 Gbit/s, 2x USB 2.0, RS-232	2x SATA 6 Gbit/s, 2x SATA 3 Gbit/s, 2x USB 2.0	2x SATA 6 Gbit/s, 2x SATA 3 Gbit/s, 4x USB 2.0, RS-232
Drive bays and supported drives		1x 5.25" (for ODD), 2x 3.5" internal + external (e.g. for HDD, SSD, card reader), supports RAID 0, 1, 10, JBOD	1x 5.25" (for ODD), 2x 3.5" internal + external (e.g. for HDD, SSD, card reader), supports RAID 0, 1	1x 5.25" (for ODD), 2x 3.5" internal + external (e.g. for HDD, SSD, card reader), supports RAID 0, 1
Power supply		500W 80 PLUS Bronze, Input: 100-240 V AC 50/60 Hz	500W 80 PLUS Bronze, Input: 100-240 V AC 50/60 Hz	500W 80 PLUS Bronze, Input: 100-240 V AC 50/60 Hz
BIOS		AMI BIOS supports ACPI 3.0 and UEFI	AMI BIOS supports ACPI 3.0 and UEFI	AMI BIOS supports ACPI 3.0 and UEFI
Material		Aluminium	Aluminium	Aluminium
Dimensions and weight		33.2 x 21.6 x 19.8 cm (DWH) = 14.2 L, 3.5 kg	32.5 x 20.8 x 18.9 cm (DWH) = 12.8 L, 4.2 kg	33.2 x 21.6 x 19.8 cm (DWH) = 14.2 L, 3.5 kg
Permitted ambient parameters		Operating temperature: 0-35 °C, Air humidity: 10-90 %	Operating temperature: 0-35 °C, Air humidity: 10-90 %	Operating temperature: 0-35 °C, Air humidity: 10-90 %
Optional accessories		2.5" HDD/SSD mounting frame (PHD3), COM port (H-RS232)	2.5" HDD/SSD mounting frame (PHD3)	2.5" HDD/SSD mounting frame (PHD3), COM port (H-RS232)

* The integrated video outputs cannot be used, if the processor installed does not have an integrated graphics function such as Intel Core i5-2380P, Core i5-2450P and Core i5-2550K.

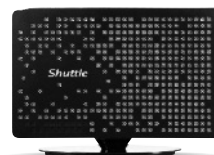
** Up to four displays are supported, if a PCI-Express-x16 graphics card is installed.

Slim-PC



Category		Home-Media		Home-Media	
Model		XG41		XH61	
Colour		Black		Black	
Complete system with Windows		X 4100B		X 6100B	
Processor	Socket	LGA775		LGA1155	
	Support	Intel Core 2 Duo, Pentium, Celeron, TDP max. 65 W		Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 65 W	
	Cooling	I.C.E. Heatpipe		Speed-regulated 80 mm fan	
Memory		2x 240 pin DIMM-slots, maximum 2x 4 GB DDR3-1066, dual-channel		2x 240 pin DIMM-slots, maximum 2x 8 GB DDR3-1333, dual-channel	
Chipset	Northbridge	Intel G41 Express		(Integrated in CPU)	
	Southbridge	ICH7		Intel H61 Express	
	Audio	Realtek ALC662 (5.1 ch)		Realtek ALC887 (7.1 ch)	
	Network	2x Realtek 8111E (Gigabit) supports WOL and PXE		Realtek 8111E (Gigabit) supports WOL and PXE	
Integrated graphics function		Intel GMA X4500, UMA max. 1,759 MB, supports dual monitoring		Intel GMA HD in CPU, UMA max. 1,692 MB, supports two displays	
Slots	Graphics card	-		-	
	PCI	Mini-PCIe-x1-slot (optional WLAN)		-	
Ports, LEDs and buttons	Front	Microphone input, headphones output, 2x USB 2.0, On/Off button with LED		Microphone input, headphones output, 2x USB 2.0, On/Off button with LED	
	Rear	HDMI (with Digital Audio), DVI-I (digital and analog), 6x USB 2.0, 3x Audio, S/PDIF, 2x Gigabit-LAN, 2x COM-Port (RS-232 and RS-232/422/485)		HDMI (with Digital Audio), VGA, 4x USB 2.0, 3x Audio, S/PDIF, Gigabit-LAN, PS/2	
	Onboard	3x SATA 3 Gbit/s		2x USB 2.0, S/PDIF, 4x SATA 3 Gbit/s	
Drive bays and supported drives		Drive bays: 2x 2.5" and 1x Slim, supports up to 2x 2.5" hard disk and an optical slimline drive		Drive bays: 1x 2.5" and 1x Slim, supports 1x 2.5" hard disk and an optical slimline drive	
Power supply		External 90 W power supply, output: 19 V DC, input: 100-240 V AC		External 90 W power supply, output: 19 V DC, input: 100-240 V AC	
BIOS		AMI BIOS supports ACPI 3.0		AMI BIOS supports ACPI 3.0, supports UEFI	
Material		Steel		Steel	
Dimensions and weight		24.2 x 20 x 7.3 cm (DWH) = 3.5 L, 2.2 kg		24 x 20 x 7.2 cm (DWH) = 3.5 L, 2.2 kg	
Permitted ambient parameters		Operating temperature: 0-35 °C, Air humidity: 10-90 %		Operating temperature: 0-35 °C, Air humidity: 10-90 %	
Optional accessories		Pedestal (PS01), VESA mount (PV02)		Pedestal (PS01), VESA mount (PV02)	

Slim-PC



Category		Basic	Home-Media	Basic
Model		XS35V3*	XS35GTAV3**	XS36V
Colour		Black	Black	Black
Complete system with Windows		XS 3500B3, XS 3500BA V3	XS 3520M3, XS 3520MA V3	XS 3600B
Processor	Model	Intel Atom D2700	Intel Atom D2700	Intel Atom D2700
	Clock speed	2x 2.16 GHz, 4 Threads	2x 2.16 GHz, 4 Threads	2x 2.16 GHz, 4 Threads
	Cooling	Passive, fanless	Passive, fanless	Passive, fanless
Memory		2x 204 pin SO-DIMM slots maximum 2x 2 GB DDR3-1066	2x 204 pin SO-DIMM slot maximum 2x 2 GB DDR3-1066	2x 204 pin SO-DIMM slot maximum 2x 2 GB DDR3-1066
Chipset	Northbridge	(integrated in CPU)	(integrated in CPU)	(integrated in CPU)
	Southbridge	Intel NM10	Intel NM10	Intel NM10
	Audio	IDT 92HD81	IDT 92HD81	IDT 92HD81
	Network	JMC251 (Gigabit) supports WOL	JMC251 (Gigabit) supports WOL	JMC251 (Gigabit) supports WOL
Wireless network, WLAN		802.11b/g/n, 150 Mbit	802.11b/g/n, 150 Mbit	802.11b/g/n, 150 Mbit
Integrated graphics function		Intel GMA 3650, UMA max. 384 MB, supports two displays	AMD HD6430M, 512 MB, supports two displays	Intel GMA 3650, UMA max. 384 MB, supports two displays
Slots	Graphics card	–	–	–
	PCI	–	–	–
Ports, LEDs and buttons	Front	1x USB 2.0, card reader, power LED, hard disk LED, On/Off button	1x USB 2.0, card reader, power LED, hard disk LED, On/Off button	2x RS-232, 1x USB 2.0, card reader, power LED, hard disk LED, On/Off button
	Rear	HDMI (with Digital Audio), VGA, 4x USB 2.0, 2x Audio, Gigabit-LAN, power supply	HDMI (with Digital Audio), VGA, 4x USB 2.0, 2x Audio, Gigabit-LAN, power supply	HDMI (with Digital Audio), DVI-D, VGA, 4x USB 2.0, 2x Audio, Gigabit-LAN, power supply
	Onboard	2x SATA 3 Gbit/s	2x SATA 3 Gbit/s	1x USB 2.0, 1x SATA 3 Gbit/s
Drive bays and supported drives		Drive bays: 1x 2.5" and 1x Slim, supports 1x 2.5" hard disk and an optical slimline drive, Card reader: 4-in-1	Drive bays: 1x 2.5" and 1x Slim, supports 1x 2.5" hard disk and an optical slimline drive, Card reader: 4-in-1	Drive bays: 1x 2.5" Supports 1x 2.5" hard disk Card reader: 4-in-1
Power supply		External 40 W power supply, output: 19 V DC, input: 100-240 V AC	External 40 W power supply, output: 19 V DC, input: 100-240 V AC	External 40 W power supply, output: 19 V DC, input: 100-240 V AC
BIOS		AMI BIOS supports ACPI 2.0 and UEFI	AMI BIOS supports ACPI 2.0 and UEFI	AMI BIOS supports ACPI 2.0 and UEFI
Dimensions and weight		25.2 x 16.2 x 3.85 cm (DWH) = 1.57 L, 2.1 kg	25.2 x 16.2 x 3.85 cm (DWH) = 1.57 L, 2.1 kg	22 x 16 x 3.6 cm (DWH) = 1.15 L, 1.6 kg
Permitted ambient parameters		Operating temperature: 0-35 °C, Air humidity: 10-90 %	Operating temperature: 0-35 °C, Air humidity: 10-90 %	Operating temperature: 0-35 °C, Air humidity: 10-90 %
Optional accessories		VESA mount (PV01), kit for second HDD/SSD (PHD2)	VESA mount (PV01), kit for second HDD/SSD (PHD2)	VESA mount (PV03)

* Also available as XS35V2 with Intel Atom D525 CPU.

** Also available as XS35GTAV2 with Intel Atom D525 CPU and AMD HD5430 graphics.

All-in-One-PC



Category		Basic	Basic
Model		X50V2 Plus	X50V3
Colour		Black or white	Black or white
Complete system with Windows		X 5020T Plus, X 5020TA Plus	X 5030T, X 5030TA
Processor	Model	Intel Atom D525	Intel Atom D2700
	Clock speed	2x 1.8 GHz, 4 Threads	2x 2.16 GHz, 4 Threads
	Cooling	Passive, fanless	Passive, fanless
Memory		2x 204-Pin SO-DIMM slots, maximum 2x 2 GB DDR3-800	2x 204-Pin SO-DIMM slots, maximum 2x 2 GB DDR3-1066
Chipset	Northbridge	(Integrated in CPU)	(Integrated in CPU)
	Southbridge	Intel NM10	Intel NM10
	Audio	IDT 92HD81	IDT 92HD87
	Network	JMC261 (100 Mbit) supports WOL	JMC251 (Gigabit) supports WOL
Wireless network, WLAN		802.11b/g/n, 150 Mbit	802.11b/g/n, 150 Mbit
Integrated graphics function		Intel GMA 3150, UMA max. 265 MB, supports dual monitoring	Intel GMA 3650, UMA max. 384 MB, supports dual monitoring
Screen	Resolution	39.6 cm/15.6" LCD display, LED backlight, 16:9 widescreen resolution: 1366 x 768	39.6 cm/15.6" LCD display, LED backlight, 16:9 widescreen resolution: 1366 x 768
	Touchscreen	Resistive	Resistive
Communication	Webcam	2.0 Megapixels (1.600 x 1.200)	2.0 Megapixels (1.600 x 1.200)
	Loudspeakers and microphone	2x 2 W loudspeaker Capacitor microphone	2x 2 W loudspeaker Capacitor microphone
Ports, LEDs and buttons	Front	Power LED, hard disk LED, WLAN LED	Power LED, hard disk LED, WLAN LED
	Rear	VGA, (Option: 2x RS-232, 1x LPT)	HDMI (with Digital Audio), VGA, (Option: 2x RS-232, 1x LPT)
	Side	Microphone input, headphones output, 4x USB 2.0, network, power supply, On/Off button	Microphone input, headphones output, 4x USB 2.0, network, power supply, On/Off button
Drive bays and supported drives		Drive bays: 1x 2.5", supports 1x 2.5" hard disk internal ports: 1x SATA 3 Gbit/s, card reader: 4-in-1	Drive bays: 1x 2.5", supports 1x 2.5" hard disk, internal ports: 1x SATA 3 Gbit/s, card reader: 4-in-1
Power supply		External 40 W power supply, output: 19 V DC, input: 100-240 V AC	External 40 W power supply, output: 19 V DC, input: 100-240 V AC
BIOS		AMI BIOS supports ACPI 3.0	AMI BIOS supports ACPI 3.0
Dimensions		39.13 x 32.7 x 3.6 cm (DWH), 2.93 kg	39.13 x 32.7 x 4.2 cm (DWH), 2.93 kg
Permitted ambient parameters		Operating temperature: 0-35 °C, Air humidity: 10-90 %	Operating temperature: 0-35 °C, Air humidity: 10-90 %
Optional accessories		IO expansion 2x COM + 1x LPT (PCL68), carrying bag (PF55)	IO expansion 2x COM + 1x LPT (PCL69), carrying bag (PF55)

