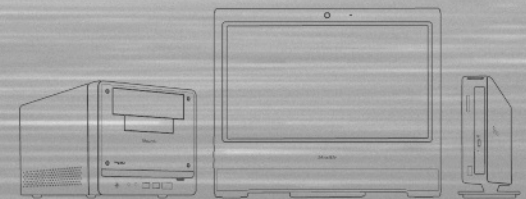


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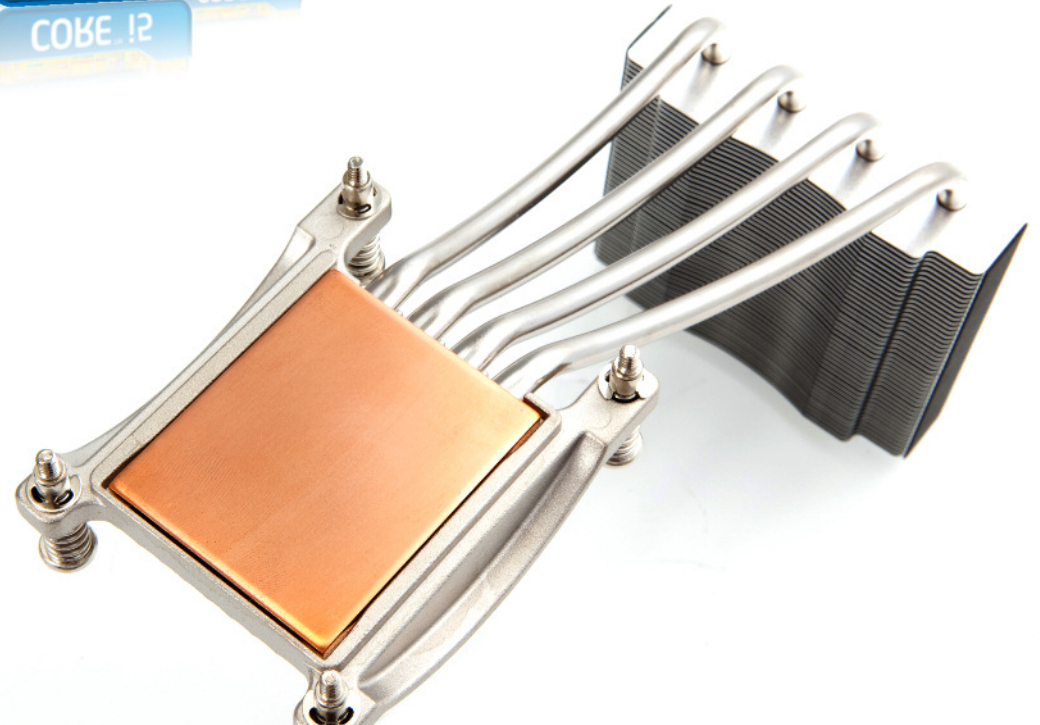
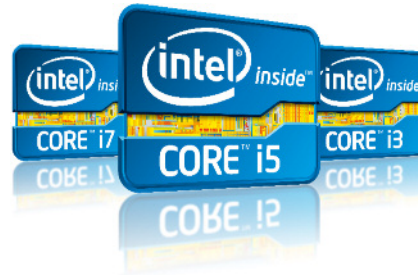
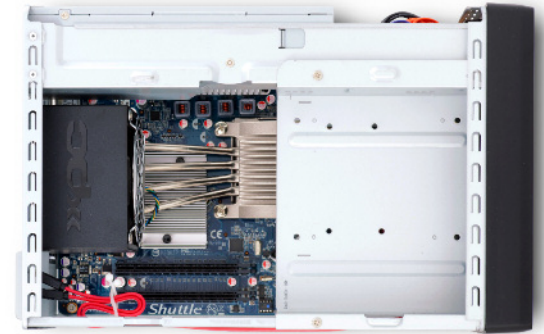
 Product Overview



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



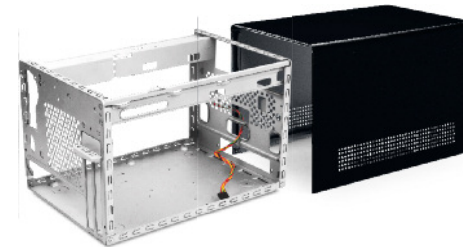
+

Mainboard



+

Case



↓

**Complete
Shuttle XPC**

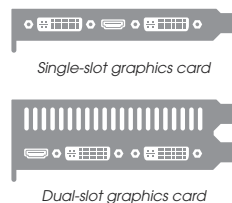


Mini-PCs are frequently underestimated ...

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 26.7cm (for the H series) or 27.3 cm (for the R series).



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 7970 with 2 GB GDDR5 **Top graphics card!**
- ▶ 4x 8 GB DDR3-1333 RAM (total = 32 GB)
- ▶ 64 GB mSATA-SSD
- ▶ 2x 4 Terabyte hard disks (total = 8 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 AMD Radeon HD 7770 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

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") or 46.7 (18.5") cm touchscreen

✓ 100% fanless

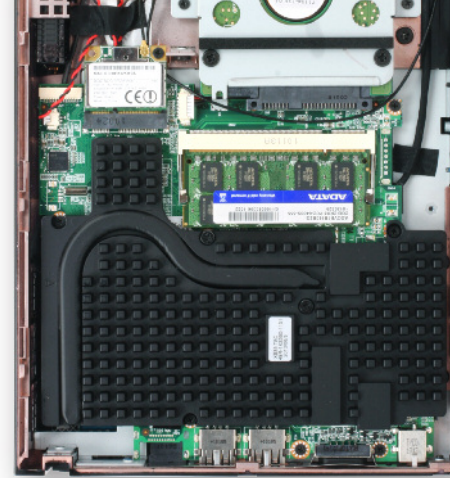
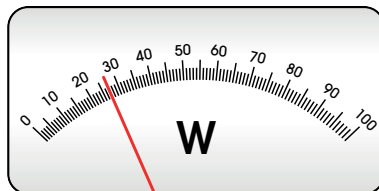
- ▶ No fan noise
- ▶ Ideal for noise-sensitive areas
- ▶ Maintenance-free, passive cooling

✓ Atom dual-core processor

- ▶ Intel Atom processor (D2700, D2550 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



The ideal addition to any mini-PC ...

Your data – securely stored and available on the go



The uncomplicated network-attached storage system for work groups, small offices or home use. Make the data on your company or personal network available to others. Prevent data loss by backing up all important data at an access-controlled central location. When did you last REALLY think about the security of your data?

✓ High data security

- ▶ In RAID-1 mode a copy of all data is always available on a second drive
- ▶ Backup function enables time-controlled backup copies onto a third, external drive

✓ Fast data transfer

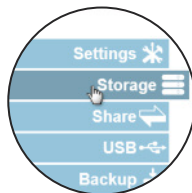
- ▶ Gigabit-LAN ensures almost instantaneous transfer of large volumes of data

✓ As much storage capacity as you want

- ▶ Two internal drives with a total capacity of 8 TB are possible
- ▶ Plus, connection capabilities for the latest USB hard disks and sticks

✓ Mobile access by app

- ▶ Free "OMNINAS" app available for iOS and Android
- ▶ Password-protected data available on the go via smartphone or tablet



Technical data	Shuttle OMNINAS KD20
Internal drives	2x 3.5" HDD/SSD, SATA 3 Gbit/s Max. 4 TB per drive (8 TB in total)
Supported RAID modes	0, 1 (hot-swappable), JBOD
Network	1x 10/100/1000 Mbit/s, Gigabit Ethernet File sharing: SMB, AFP
Additional interfaces	1x USB 3.0, 2x USB 2.0, card reader
Dimensions (DWH)	22.5 x 9 x 16.9 cm
Special features	Basic chassis of high-quality aluminium, low power consumption, DLNA server, iTunes server, attached printers can be shared across the network



Actual Size

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

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www.facebook.com/Shuttle.Europe



www.youtube.com/SCHgermany



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

Milestones

- 2012 ▶ Introduction of OMNINAS (NAS solutions)
- 2012 ▶ Shuttle adds 18.5" model to its All-in-One PC product range
- 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





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, SZ77R5, SX79R5



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.

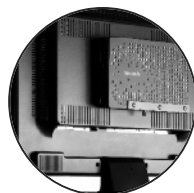
Models in the Slim-PC format: XH61V, DS61



DS61



XS35



Small and even 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

Actual Size





X50

All-in-One systems combine monitor and computer in a single device. To make these slimline 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, variants and sizes. Need more processing power or additional ports? The X70 models can be fitted with energy-efficient processors and 16 GB DDR3 RAM. Try out this little power pack with a touchscreen.

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)
- ✓ **Up to 16 GB of DDR3 RAM**
 - ▶ Two DIMM sockets with dual-channel functionality
- ✓ **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

Speed	Functionality	Energy Efficiency	Space Saving	Price
• •	• •	• •	•	•

SH61R4 ▼

**Shuttle® XPC Barebone SH67H3/SH67H7**

Versatile platform for a wide spectrum of applications

- ✓ **Two front designs to choose from**
 - ▶ Open (H3) or with stylish front doors (H7)
- ✓ **LGA1155 socket for energy-efficient processors**
 - ▶ Supports the second and third* generation of Intel Core processors (i3/i5/i7) as well as Pentium and Celeron
- ✓ **Up to 32 GB of DDR3 memory**
 - ▶ Four DIMM sockets with dual-channel mode
- ✓ **Improved CPU-integrated Intel HD graphics function*****
 - ▶ HDMI and DVI-I outputs support full HD and Blu-ray video and offer solid 3D performance

Optional accessories: PC63, PHD3, H-RS232

Speed	Functionality	Energy Efficiency	Space Saving	Price
• •	• •	• •	•	• •

SH67H3 ▼

SH67H7 ▼



Shuttle® XPC Barebone SZ68R5

Premium PC platform with complete CPU compatibility and SRT (SSD caching)

- ✓ **LGA1155 socket for all 22 nm / 32 nm processors**
 - ▶ Supports the second and third* generation of Intel Core processors (i3/i5/i7)
- ✓ **Up to 32 GB of DDR3 RAM**
 - ▶ Four DIMM sockets with dual-channel functionality
- ✓ **Powerful CPU-integrated Intel HD graphics function*****
 - ▶ HDMI and DVI-I output support full HD as well as Blu-ray video playback for solid 3D performance
- ✓ **Smart USB for charging iPhone/iPad**
 - ▶ A USB port on the front with 2 Amp power feed is suitable for devices with high charging or quick-charge requirements

Optional accessories: PHD3, H-RS232

Speed	Functionality	Energy Efficiency	Space Saving	Price
• • •	• • •	• •	•	• •

SZ68R5 ▼



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**
 - ▶ e.g. Intel Core i7-990X Extreme Edition processor, (6 cores, 12 MB cache, 3.46 GHz, 6.40 GT/s Intel QPI)
- ✓ **Up to 16 GB of DDR3 RAM**
 - ▶ 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
 - ▶ 500 W power supply with additional 6+8-pin power supply
- ✓ **Dual Gigabit-LAN**
 - ▶ Two interfaces in teaming mode, failure protection or have one PC connected to two different networks

Optional accessories: PHD3

Speed	Functionality	Energy Efficiency	Space Saving	Price
• • •	• •	•	•	• • •

SX58H7 Pro ▼



*from BIOS version .201

** Supports e.g. NVIDIA GeForce GTX 580, NVIDIA Quadro 5000 or AMD Radeon HD 6970.
Please 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 SZ77R5

High-performance desktop chipset
Intel Z77 Express with PCI-Express 3.0

- ✓ **Up to 32 GB of DDR3 1600 RAM**
 - ▶ Four DIMM sockets with dual-channel functionality
- ✓ **Supports the latest dual-slot graphics cards***
 - ▶ 500W power supply with additional 6+8-pin power supply
- ✓ **Up to two hard disks and an optical drive**
 - ▶ SSD drive or mSATA slot uses "Smart Response Technology" for faster booting and program start-up
- ✓ **Performance-optimised**
 - ▶ A host of performance-enhancing adjustment options in BIOS
- ✓ **Application-optimised**
 - ▶ High-end PC for HD content, resource-hungry 3D games (graphics card required), workstation in content creation field

Optional accessories: PHD3, H-RS232

Speed	Functionality	Energy Efficiency	Space Saving	Price
• • •	• • •	• •	•	• •

SZ77R5 ▼



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
- ✓ **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
- ✓ **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

Optional accessories: PHD3, H-RS232

Speed	Functionality	Energy Efficiency	Space Saving	Price
• • •	• •	•	•	• • •

SX79R5 ▼



Shuttle® Barebone XH61V

Strong computing power and remarkable energy efficiency

- ✓ **LGA1155 socket for effective processors**
 - ▶ Supports the second and third generation of Intel Core processors (i3/i5/i7) as well as Pentium and Celeron
- ✓ **Up to 16 GB of DDR3 RAM**
 - ▶ Two SO-DIMM sockets with dual-channel functionality
- ✓ **For particularly 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
- ✓ **High connectivity**
 - ▶ USB 3.0, 5.1 Audio, S/PDIF, 2x network, 2x COM port (RS-232/422/485)

Optional accessories: PS01, PV02

Speed	Functionality	Energy Efficiency	Space Saving	Price
• •	• • •	• •	• •	•

XH61V ▼

**Shuttle® Barebone XS35V3L****

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 D2550 with 2x 1.86 GHz already mounted
- ✓ **Power-efficient**
 - ▶ Only 16 to 25 W – cool and reliable
- ✓ **DVD/Blu-ray drive possible**
 - ▶ Can be fitted with optical drive and 2.5" HDD/SSD

Optional accessories: PV01, PHD2

Speed	Functionality	Energy Efficiency	Space Saving	Price
•	• •	• • •	• • •	•

XS35V3L ▼



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

** Also available as XS35V2 with Intel Atom D525 CPU or XS35V3 with Atom D2700 processor.

Shuttle® Barebone XS35GS V3L*

Extraordinary graphics performance – completely fanless

- ✓ **Quiet thanks to exclusively passive cooling components**
 - ▶ Practically noiseless and maintenance-free despite dedicated graphics card
- ✓ **Tiny: only approx. 1.5 litre volume**
 - ▶ For more space – wherever it is set up
- ✓ **Full HD compatible**
 - ▶ AMD HD7410M graphics with HDMI supports smooth playback of 1080p videos and delivers 3D performance when required
 - ▶ An additional D-Sub output allows for dual monitoring
- ✓ **Optical drive possible**
 - ▶ Can be fitted with DVD or Blu-ray drive + 2.5" HDD/SSD

Optional accessories: PV01, PHD2

Speed	Functionality	Energy Efficiency	Space Saving	Price
•	• •	• • •	• • •	•

XS35GS V3L ▼



Shuttle® Barebone XS36VL

Shuttle's smallest PC comes fully-loaded

- ✓ **Completely fanless, exceptionally quiet**
 - ▶ Practically noiseless and maintenance-free
- ✓ **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
- ✓ **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

Optional accessories: PV03

Speed	Functionality	Energy Efficiency	Space Saving	Price
•	• • •	• • •	• • •	•

XS36VL ▼



Shuttle® Barebone X50V3L**

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
- ✓ **Serial and parallel ports (optional)**
 - ▶ For industry and business applications
- ✓ **HDMI and VGA connector**
 - ▶ For dual-monitoring
- ✓ **Application-optimised**
 - ▶ POS system, health service communication centre, information terminal, home automation and equipment control, digital signage (presentation)

Optional accessories: PF55, PCL69

Speed	Functionality	Energy Efficiency	Space Saving	Price
•	• • •	• • •	• • •	• •

X50V2 Plus ▼



X50V3L ▼



* Also available as XS35GTA V2 with Intel Atom D525 processor and AMD HD5430, XS35GTA V3 with Intel Atom D2700 CPU and AMD HD7410M or XS35GS V2 with Intel Atom D525 processor and HD7410M graphics.
 ** Also available as X50V2 Plus with Intel Atom D525 processor or X50V3 with Intel Atom D2700 processor.

Shuttle® Barebone X70S

Powerful 18.5" all-in-one solution for the latest generation of Intel desktop processors

- ✓ **Flexible choice of processor**
 - ▶ Suitable for many LGA1155 processors (TDP max. 65 W)
 - ▶ Supports second and third generation of Intel Core processors (i3/i5/i7)
- ✓ **Convenient and space-saving**
 - ▶ Fully-functional PC integrated in a flat screen display
 - ▶ Touchscreen for mouse-free and keyboard-free input
- ✓ **VESA-compatible**
 - ▶ Attachment option for 100 mm VESA mount
- ✓ **Highly integrated design**
 - ▶ Fitted with USB 3.0, card reader, WLAN, Dual Gigabit-LAN, webcam, microphone and speakers

Optional accessories: PCL70

Speed	Functionality	Energy Efficiency	Space Saving	Price
• •	• • •	• •	• •	• • •

X70S ▼



Mini PC

PC61J

► 300W power supply 80PLUS



PC63J

► 500W power supply 80PLUS



H-RS232

► COM expansion



PHD3

► 2.5 inch drive holder



Slim PC

PV01

► VESA-mount 75/100 mm



PV02

► VESA-mount 75/100 mm



PV03

► VESA-mount 75/100 mm



PS01

► Vertical stand



PHD2

► 2nd HDD/SSD accessory



All-in-One PC

PCL68

► COM/LPT expansion



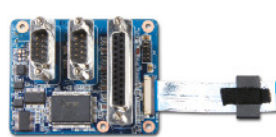
PCL69

► COM/LPT expansion



PCL70

► COM/LPT expansion



PF55

► Carrying bag



Mini PC



Category		Basic	Home-Media	Performance
Model		SH61R4	SH67H3 / SH67H7	SX58H7 Pro
Colour		Black	Black	Black
Complete system with Windows		R4 6100B, R4 6100BA	H3 6700H	H7 5820P
Processor	Socket	LGA1155	LGA1155	LGA1366
	Support	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 95 W	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 95 W	Intel Core i7, Quad- and Hexa-Core
	Cooling	I.C.E. Heatpipe	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	4x 240 pin DIMM-slots, maximum 4x 4 GB DDR3-1333 Triple channel (3+1)
Chipset	Northbridge	(Integrated in CPU)	(Integrated in CPU)	Intel X58 Express
	Southbridge	Intel H61 Express	Intel H67 Express	Intel ICH10R (RAID)
	Audio	IDT 92HD89C (5.1 ch)	Realtek ALC888 (7.1 ch)	Realtek ALC888S (7.1 ch)
	Network	Realtek RTL 8111E (Gigabit), supports WOL and PXE	Realtek RTL 8111E (Gigabit), supports WOL and PXE	2x Realtek 8111E (Gigabit), supports WOL, PXE, Teaming
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	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 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	1x Mini-PCIe-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	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	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
	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)	2x SATA 6 Gbit/s, 2x SATA 3 Gbit/s, 2x USB 2.0
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	1x 5.25" (for ODD), 2x 3.5" internal + external (e.g. for HDD, SSD, card reader), supports RAID 0, 1
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	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		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	32.5 x 20.8 x 19.6 cm (DWH) = 12.8 L, 4.2 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 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 (PC63J)	2.5" HDD/SSD mounting frame (PHD3)

Mini PC



Category		Performance		Performance		Performance	
Model		SZ68R5		SZ77R5		SX79R5	
Colour		Black		Black		Black	
Complete system with Windows		R5 6800P		R5 7700P		R5 7900P	
Processor	Socket	LGA1155		LGA1155		LGA2011	
	Support	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 95 W		Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 95 W		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 8 GB DDR3-1600 Dual channel		4x 240 pin DIMM-slots, maximum 4x 8 GB DDR3-1600 Quad channel	
Chipset	Northbridge	(Integrated in CPU)		(Integrated in CPU)		(Integrated in CPU)	
	Southbridge	Intel Z68 Express		Intel Z77 Express		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		Realtek 8111E (Gigabit), supports WOL, PXE		2x Realtek 8111E (Gigabit), supports WOL, Teaming	
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 connector		1x PCI-Express-x16-3.0, 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	
	PCI	1x PCIe-x4-2.0, 1x Mini-PCIe-x1-2.0, 1x mSATA		1x PCIe-x4-2.0, 1x Mini-PCIe-x1-2.0, 1x Mini-PCIe-x1-2.0 (supports mSATA)		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, 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, 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		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		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, RS-232		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, 10, JBOD		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		33.2 x 21.6 x 19.8 cm (DWH) = 14.2 L, 3.5 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), COM port (H-RS232)		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		DS61	XH61V
Colour		Black	Black
Complete system with Windows		D 6100B	X 6110B
Processor	Socket	LGA1155	LGA1155
	Support	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 65 W	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 65 W
	Cooling	I.C.E. Heatpipe	I.C.E. Heatpipe
Memory		2x 204-Pin SO-DIMM-slots, maximum 2x 8 GB DDR3-1333, dual-channel	2x 204-Pin SO-DIMM-slots, maximum 2x 8 GB DDR3-1333, dual-channel
Chipset	Northbridge	(Integrated in CPU)	(Integrated in CPU)
	Southbridge	Intel H61 Express	Intel H61 Express
	Audio	Realtek ALC662 (5.1 ch)	Realtek ALC887 (7.1 ch)
	Network	2x Realtek 8111E (Gigabit) unterstützt WOL und PXE	2x Realtek 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	-	-
	PCI	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 2.0, card reader: SD, SDHC & SDXC, power LED, hard disk LED, On/Off button	Microphone input, headphones output, 2x USB 2.0, On/Off button with LED
	Rear	HDMI (with Digital Audio), DVI-I (digital and analogue), 2x USB 3.0, 2x Gigabit-LAN, 2x COM-Port (RS-232 and RS-232/422/485), Remote Power-On	HDMI (with Digital Audio), DVI-I (digital and analogue), 2x USB 3.0, 2x USB 2.0, 3x Audio, S/PDIF, 2x Gigabit-LAN, 2x COM-Port (RS-232 und RS-232/422/485)
	Onboard	6x USB 2.0, S/PDIF, 2x SATA 3 Gbit/s, LPC, LVDS, Converter	3x SATA 3 Gbit/s
Drive bays and supported drives		Drive bays: 1x 2.5" supports 1x 2.5" hard disk/SSD, card reader: SD, SDHC & SDXC	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 unterstützt ACPI 3.0, supports UEFI	AMI BIOS supports ACPI 3.0, supports UEFI
Material		Steel	Steel
Dimensions and weight		19 x 16.5 x 4.3 cm (DWH) = 1.35 L, 1.3 kg	24 x 20 x 7.2 cm (DWH) = 3.5 L, 2.2 kg
Permitted ambient parameters		Operating temperature: 0-50 °C, Air humidity: 10-90 %	Operating temperature: 0-35 °C, Air humidity: 10-90 %
Optional accessories		-	Pedestal (PS01), VESA mount (PV02)

Slim PC



Category		Basic	Home-Media	Basic
Model		XS35V3L*	XS35GS V3L**	XS36VL
Colour		Black	Black	Black
Complete system with Windows		XS 3501B3, XS 3501BAV3	XS 3531M3, XS 3531MA V3	XS 3601B, XS 3601BA
Processor	Model	Intel Atom D2550	Intel Atom D2550	Intel Atom D2550
	Clock speed	2x 1.86 GHz, 4 Threads	2x 1.86 GHz, 4 Threads	2x 1.86 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	Realtek RTL8411 (Gigabit) supports WOL	Realtek RTL8411 (Gigabit) supports WOL	Realtek RTL8411 (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 HD7410M, 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: SD, SDHC, SDXC	Drive bays: 1x 2.5" and 1x Slim, supports 1x 2.5" hard disk and an optical slimline drive, Card reader: SD, SDHC, SDXC	Drive bays: 1x 2.5" Supports 1x 2.5" hard disk Card reader: SD, SDHC, SDXC
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 or XS35V3 with Atom D2700 processor.

** Also available as XS35GTA V3 with Intel Atom D525 CPU and AMD HD5430, XS35GTA V3 with Intel Atom D2700 CPU and AMD HD7410M or XS35GS V2 with Intel Atom D525 CPU and HD7410M graphics.

All-in-One PC



Category		Basic	Basic	Home-Media
Model		X50V2 Plus	X50V3L*	X70S
Colour		Black or white	Black or white	Black
Complete system with Windows		X 5020T Plus, X 5020TA Plus	X 5031T, X 5031TA	X 7000T, X 7000TA
Processor	Model	Intel Atom D525	Intel Atom D2550	Intel Core i3/i5/i7, Pentium, Celeron (LGA1155, TDP max. 65 W)
	Clock speed	2x 1.8 GHz, 4 Threads	2x 1.86 GHz, 4 Threads	(dependant on processor)
	Cooling	Passive, fanless	Passive, fanless	I.C.E. Heatpipe
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	2x 204-Pin SO-DIMM slots, maximum 2x 8 GB DDR3-1600
Chipset	Northbridge	(Integrated in CPU)	(Integrated in CPU)	(Integrated in processor)
	Southbridge	Intel NM10	Intel NM10	Intel H61 Express
	Audio	IDT 92HD81	IDT 92HD87	Realtek ALC269
	Network	JMC261 (100 Mbit) supports WOL	Realtek RTL8411 (Gigabit) supports WOL	2x Realtek 8111E (Gigabit) supports WOL and PXE
Wireless network, WLAN		802.11b/g/n, 150 Mbit	802.11b/g/n, 150 Mbit	802.11b/g/n, 300 Mbit
Integrated graphics function		Intel GMA 3150, UMA max. 265 MB, supports dual monitoring	Intel GMA 3650, UMA max. 384 MB, supports dual monitoring	Intel GMA HD integrated in processor, UMA max. 1.692 MB, supports dual monitoring
Screen	Resolution	39.6 cm / 15.6" LCD display, LED backlight, 16:9 widescreen resolution: 1.366 x 768	39.6 cm / 15.6" LCD display, LED backlight, 16:9 widescreen resolution: 1.366 x 768	46.7 cm / 18.5" LCD display, LED backlight, 16:9 widescreen resolution: 1.366 x 768
	Touchscreen	Resistive	Resistive	Resistive
Communication	Webcam	2.0 Megapixels (1.600 x 1.200)	2.0 Megapixels (1.600 x 1.200)	2.0 Megapixel (1.600 x 1.200)
	Loudspeakers and microphone	2x 2 W loudspeaker, capacitor 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	Power LED, hard disk LED
	Rear	VGA, (Option: 2x RS-232, 1x LPT)	HDMI (with Digital Audio), VGA, (Option: 2x RS-232, 1x LPT)	HDMI (with Digital Audio), Microphone input, headphones output, 2x USB 3.0, 2x USB 2.0, 1x RS-232, 2x LAN, power supply, (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	4x USB 2.0, 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: SD, SDHC & SDXC	Drive bays: 1x 2.5", supports 1x 2.5" hard disk, internal ports: 1x SATA 3 Gbit/s, card reader: SD, SDHC & SDXC	Drive bays: 1x 2.5", supports 1x 2.5" hard disk/SSD, internal ports: 2x SATA 3 Gbit/s, card reader: SD, SDHC, SDXC
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 120 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	AMI BIOS supports ACPI 2.0 and UEFI
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	46.8 x 36.4 x 5.7 cm (DWH), 4.6 kg
Permitted ambient parameters		Operating temperature: 0-35 °C, Air humidity: 10-90 %	Operating temperature: 0-35 °C, Air humidity: 10-90 %	Operating temperature: 0-40 °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)	IO expansion 2x COM + 1x LPT

NAS



Category		Home-Media
Model		OMNINAS KD20
Colour		White/silver
Processor	Model	PLX NAS 7821
	Clock speed	2x 750 MHz
Memory		256 MB
Ports, LEDs and buttons	front	1x USB 3.0, card reader, status LED, card reader LED, USB LED, hard disk LED, On/Off button
	rear	2x USB 2.0, Gigabit LAN, power supply unit, reset button
Drive bays and supported drives		2x 3.5" for hard disks/SSDs up to a total of 8 TB, supports RAID-0, 1, JBOD, single disk
Card reader		Supports SD, SDHC and SDXC
Networking services		Samba server (SMB file sharing), Apple File Protocol (AFP), media server (supports DLNA), iTunes server, printer server (supports USB printer), BT download without PC (scheduled), external device sharing (via USB or card reader), NTP support for scheduled time synchronisation
In-built backup functions		Quick Auto Copy for external storage (from USB 3.0 or card reader to NAS), NAS to USB storage backup, NAS to NAS backup
System services		Firmware upgrade, time zone settings, factory reset function, system log report
Mobile use		Free apps for mobile devices with iOS or Android, access via browser
Power adapter		External 65 W power supply, output: 19 V DC, input: 100-240 V AC
Materials		Aluminium, plastic
Dimensions and weight		22.5 x 17 x 9 cm (DHW) = 3.44 litres, 2.2 kg
Environmental parameters		Operating temperature: 5-35 °C Humidity: 10-90 %

* Also available as X50V3 with Intel Atom D2700 processor.

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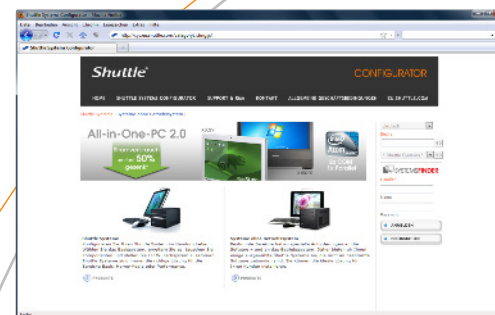
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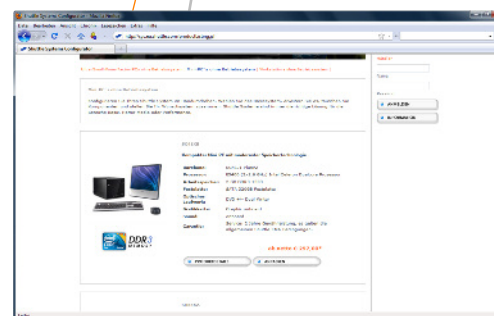
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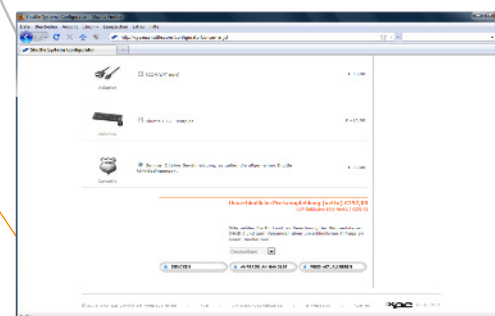


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