

Shuttle



SLIM PC | MINI PC | ALL-IN-ONE PC | NAS

Welcome to the world of Mini PCs ...

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

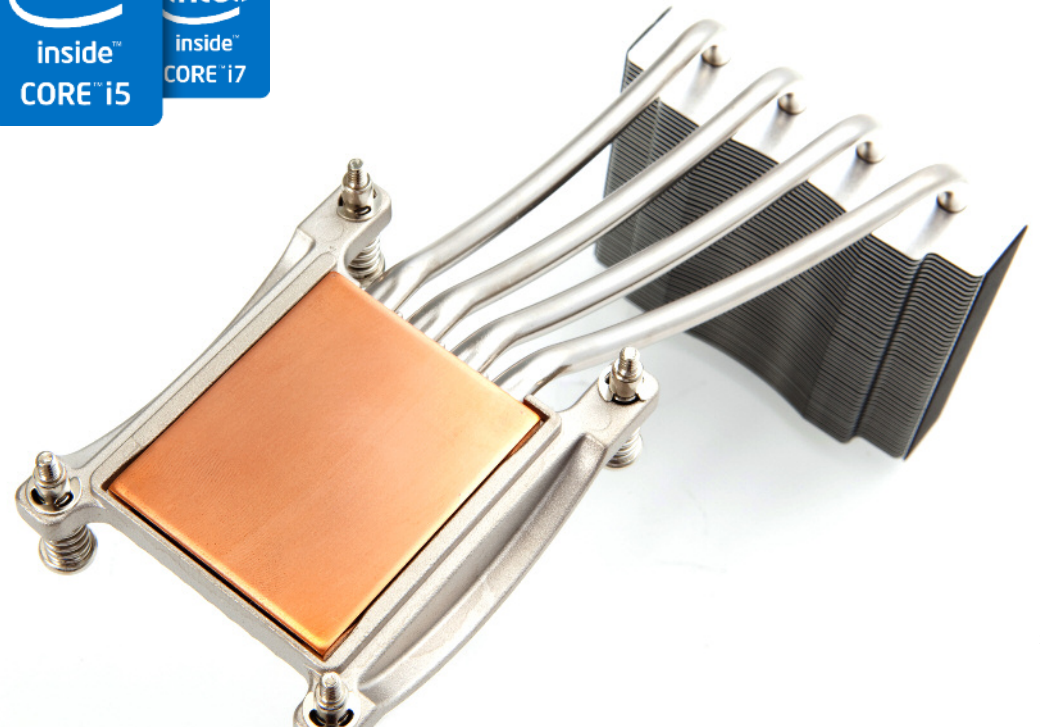
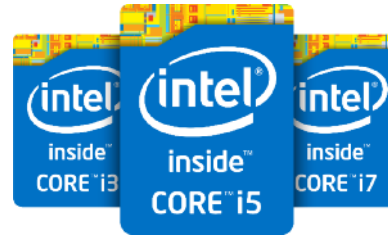
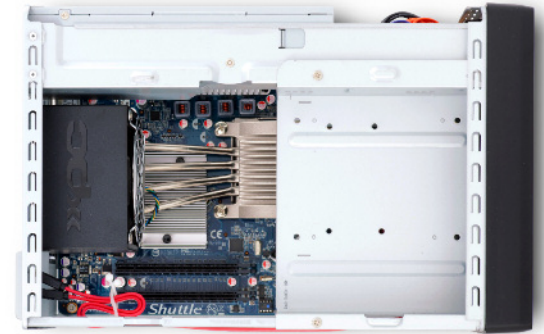
- ✓ **Compact and stylish**
 - ▶ Only about 13 litres in volume
 - ▶ Three times smaller than conventional Desktop PCs
 - ▶ Stylish design, top-quality workmanship, aluminium cases

- ✓ **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 / SSD



► Graphics card*



► Optical drive



► Operating system



Cooling system

+

Power supply unit

+

Cables

+

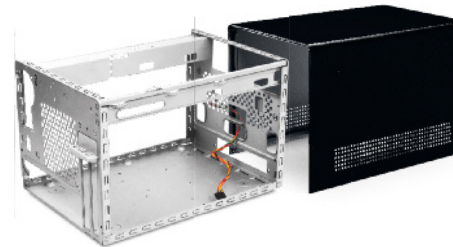
Mainboard

+

Case



**Complete
Shuttle Mini PC**



Mini PCs are frequently underestimated ...

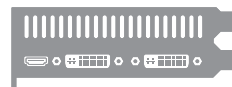
Shuttle Mini PCs form basis for top-spec gaming PCs

Where do I know, if my graphics card fits?

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 SZ87R6
- ▶ Intel® Core™ i7-4770K processor (4 cores, 8 MB Cache, up to 3.90 GHz)
- ▶ AMD Radeon™ R9 280X graphics card
- ▶ 4x 8 GB DDR3-1333 memory (total = 32 GB)
- ▶ 120 GB mSATA-SSD
- ▶ 2x 4 TB hard disks (total = 8 TB) in RAID 0 or 1
- ▶ Blu-ray writer

Does the built-in PSU 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™ R7 240 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

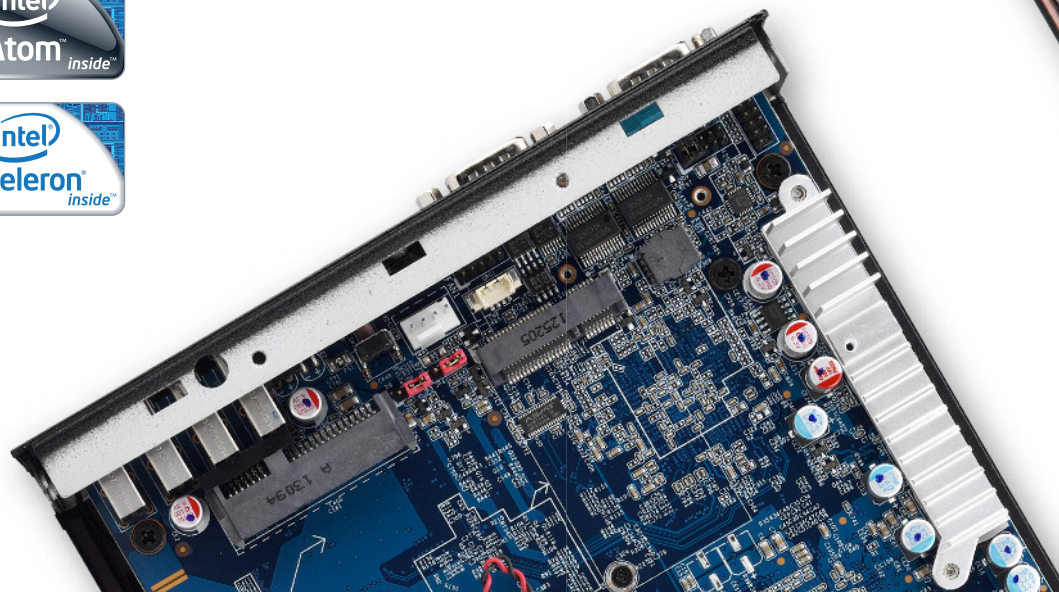


Graphics card with two 6-pin power connectors

Other compact PC products from Shuttle ...

Energy-saving solutions with Intel Celeron and Atom processor

- ✓ **Slim PC or All-in-One PC**
 - ▶ Nettop format (only 1.1 to 1.5 litres)
 - ▶ All-in-One PC with 39.6 cm (15.6") or 46.7 cm (18.5") touchscreen
- ✓ **100% fanless**
 - ▶ No fan noise
 - ▶ Ideal for noise-sensitive areas
 - ▶ Maintenance-free, passive cooling
- ✓ **Atom dual-core processor**
 - ▶ Intel Atom processor (D2550 or D525)
 - ▶ Dual-Core + Hyper-Threading allows for four threads to be processed simultaneously
 - ▶ Power consumption only max. 10 to 13 W
- ✓ **Celeron Dual-Core CPU**
 - ▶ Intel Celeron processor (847 or 1037U)
 - ▶ Dual-Core allows for processing parallel threads
 - ▶ Maximum TDP ranging from 11 to 17 Watt only
- ✓ **Energy-saving**
 - ▶ Consumption only approx. 11–30 W
 - ▶ Electricity costs only about €10–18 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, enhance data security and access your personal files from everywhere on the go. The low-noise single- and dual-bay storage solutions are particularly easy to operate. Shuttle OMNINAS – your own private cloud.

✓ Extremely quiet, efficient operation

- ▶ Thanks to the optimal heat dissipation of the aluminium chassis, the fan in the dual-bay models remains mostly inactive
- ▶ Single-bay model completely fanless

✓ Videos, music and photos everywhere

- ▶ DLNA-compatible media server integrated (for PlayStation, Xbox etc.)

✓ Swift setup and operation

- ▶ Self-explaining installation wizard guides through the initial steps
- ▶ User interface with basic functions

✓ Mobile access by app

- ▶ Free "OMNINAS" app available for Android and iOS
- ▶ Access your password-protected data on the go via web browser, smartphone or tablet

✓ Fast data transfer

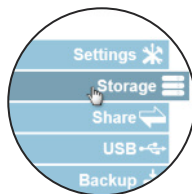
- ▶ Gigabit Ethernet ensures almost instantaneous transfer of large volumes of data
- ▶ KD22 and KS10 even feature an integrated Wireless-LAN access point

✓ High data security

- ▶ In RAID-1 mode, a copy of all data is always available on a second drive (dual-bay only)
- ▶ Backup function allows for time-controlled data backups to an external drive or another NAS

✓ As much storage capacity as you want

- ▶ Two internal drives with a total capacity of 8 TB are possible*
- ▶ Connect external USB hard disks or USB memory sticks, if desired



Actual Size

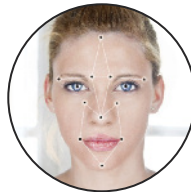
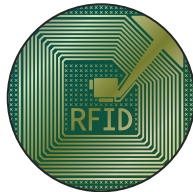
Biometric identification

Identification and usage of biometric data bears many advantages and is becoming more popular and wider acknowledged even in non-high security environments. Shuttle now unveils a new solution for facial recognition that includes further security-enhancing features such as a fingerprint reader and RFID technology.

Without a key or a keycard, HR70 is for example capable of granting persons that have previously been registered access to certain areas inside a building by just scanning their faces or otherwise working hours and be registered.

The Linux-based HR70 is characterised by a quick response time, high identification rate, modular assembly and easy setup.

- ✓ HR70 allows for identification of face, fingerprint and RFID
- ✓ Two full-HD cameras and LED light
- ✓ Verification within approx. two seconds only, 99.99% accuracy
- ✓ 7 inch touchscreen, RS-232 port, GPIO, Ethernet, Wi-Fi
- ✓ Extensive documentation, API and SDK included

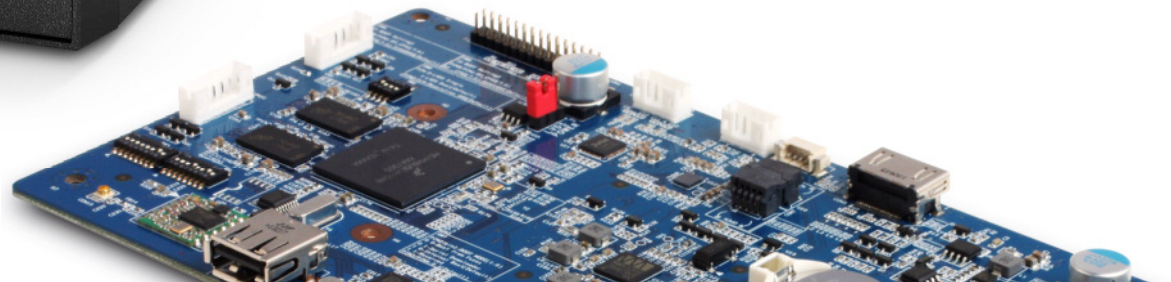


ARM-based Digital Signage Player with Android operating system

An extremely energy-saving and cost-effective alternative to traditional PC solutions is here – the new product generation of DSA2L models. Shuttle's ARM-based media players are completely fanless and built around a robust steel chassis making them perfectly suitable for 24/7 use. The powerful built-in Freescale ARM® Cortex™-A9 i.MX6 dual-core processor allows for playback of both 1080p and 720p videos.

At a size of only 190 x 142 x 33 mm (LWH) these compact devices can be mounted and operated in various positions and of course can be affixed behind screens and attached to other surfaces using the VESA mount.

- ✓ Suitable for playback of 1x 1080p or 2x 720p videos
- ✓ 1 GB memory, 4–8 GB flash memory
- ✓ Android 4.2 operating system
- ✓ DSA2LS with integrated power supply, DSA2LE with "Power over Ethernet" (PoE) function
- ✓ HDMI, VGA, RS-232, 4x USB, analog audio, card reader, Gigabit Ethernet and Wi-Fi



Shuttle from A to Z...

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, Slim PCs (nettops) and storage solutions.

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www.facebook.com/Shuttle.Europe



www.youtube.com/SCHgermany



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

Milestones

- 2013 ► Shuttle celebrates its 30th anniversary since its establishment
- 2012 ► Launch of particularly robust and fanless industrial PCs
- 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 ► Shuttle establishes Japan branch office
- 2004 ► Over one million XPCs shipped
- 2002 ► Introduces the patented "I.C.E." heatpipe cooling system
- 2001 ► Launches first Shuttle XPC Mini PC
- 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 recognised 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 ► Shuttle 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: SH67H7

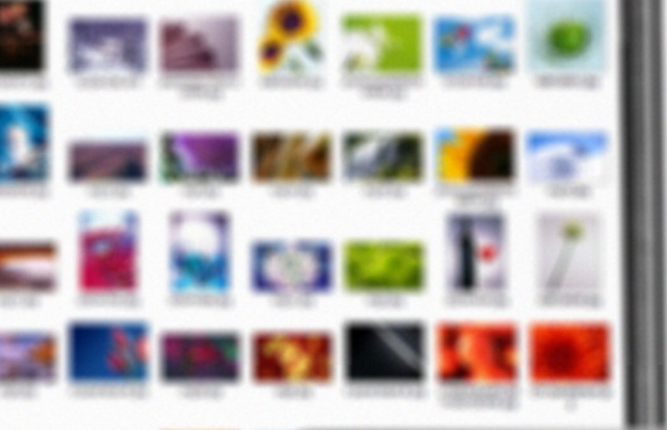


H3

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, SH81R4**



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: SZ77R5, SX79R5







R6

How to conceal computing performance the unobtrusive way and let it find a dedicated place on the desk? The R6-design models impress with a top level of performance and a clever cooling system. The front panel presents itself in either a "pin-stripe" look or in a brushed aluminium design. You decide.

R6-design models: SH87R6, SZ87R6



DS61

Small, powerful and robust – these are the pillars of this model. Such devices allow for stable and reliable operation even up to an ambient temperature of 50 °C. Despite the height of barely 43 mm, most of the current Intel Core desktop processors are supported. The wealth of ports on both the front and back panel certainly impresses, too.

*DS-design models for desktop processors: DS61, DS81**





DS437

Neither hear nor see it. The completely fanless DS-design models are exceptionally low-noise thanks to them being passively cooled. At a height of just 40 mm they are easily overlooked – especially when VESA-mounted behind a screen. For special applications many models feature Dual-Gigabit Ethernet and serial interfaces.

*Fanless DS-design models with a Celeron processor: DS47, DS437, DS437T**





XH81V

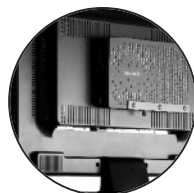
At first glance, these machines of the 3-litre class of Mini PCs that measure barely 7 cm in height may appear plain. But a look at the technical specs of these small powerhouses presents them in a completely different light. Processors that are normally found only in large PCs paired with plenty of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

XH-design models: XH61V, XH81V, XH81**





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.

XS-design models: 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



Awards & Reviews ...

Highly Recommended – What the European press says about us

Shuttle products have stood tall in a large number of reviews right across Europe and are the proud bearers of numerous awards. Here is a small selection.



Shuttle® XPC Barebone SH61R4*

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

- ✓ **Customisable front panel for individual design**
 - ▶ 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 connectors**
 - ▶ 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, WLN-C

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

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
- ✓ **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, WLN-C

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

SH67H3 ▼

SH67H7 ▼



Shuttle® XPC Barebone SZ77R5

First-class Desktop Platform
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 unit with additional 6+8-pin power connector
- ✓ **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, WLN-C

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

SZ77R5 ▼



Shuttle® XPC Barebone SX79R5

Extreme performance:
The world's only Mini PC for
Ivy Bridge E** and Sandy Bridge E

- ✓ **Suitable for most of the currently available processors**
 - ▶ For example, Intel Core i7-4960X Extreme Edition** (socket LGA2011, 6 cores, 15 MB Cache, up to 4.00 GHz)
- ✓ **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 unit with additional 6+8-pin power connector
- ✓ **Dual Gigabit Ethernet**
 - ▶ Two interfaces in teaming mode, failure protection or have one PC connected to two different networks (LAN/WAN)
- ✓ **Wide range of connectors**
 - ▶ SATA 6 Gbit/s, eSATA with power supply, mSATA, USB 3.0, S/PDIF, 2x Gigabit Ethernet

Optional accessories: PHD3, H-RS232, WLN-C

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

SX79R5 ▼



Shuttle® XPC Barebone SH87R6

State-of-the-art desktop PC
for the latest Intel processors

- ✓ **Socket LGA1150 for current Intel processors**
 - ▶ Supports the fourth 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 functionality
- ✓ **Improved CPU-integrated Intel-HD graphics*****
 - ▶ HDMI and DVI-I outputs support full HD and Blu-ray video playback and offer solid 3D performance
- ✓ **Application-optimised**
 - ▶ Home-PC for highest requirements, powerful business PC on the desk, professional applications with COM port (optional)

Optional accessories: PHD3, H-RS232, WLN-C, PC63J

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

SH87R6 ▼



Shuttle® XPC Barebone SZ87R6

Now with afterburner built in:
Intel Z87 chipset in a Mini PC

- ✓ **Particularly optimised for performance in an advanced configuration**
 - ▶ Many performance-enhancing settings in BIOS
 - ▶ SATA 6 Gbit/s with SRT, USB 3.0, PCI-Express 3.0
- ✓ **Supports most recent dual-slot graphics cards***
 - ▶ 500 Watt power supply unit with additional 6+8-pin connector
- ✓ **Dual-Gigabit Ethernet**
 - ▶ Two interfaces in teaming mode, failure protection or have one PC connected to two different networks (e.g. LAN/WAN)
- ✓ **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, WLN-C

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

SZ87R6 ▼



Shuttle® Barebone DS81*

Extremely robust Slim PC
for Intel Desktop processors

- ✓ **Socket LGA1150 for the latest processors**
 - ▶ Supports the fourth generation ("Haswell") of Intel Core processors (i3/i5/i7) as well as Pentium and Celeron
- ✓ **Withstands high temperatures**
 - ▶ Reliable operation also under ambient temperatures between 0-50 °C
 - ▶ Rugged steel chassis protects from mechanical impacts
- ✓ **Dual-Gigabit Ethernet**
 - ▶ Two interfaces in teaming mode, failure protection or have one PC connected to two different networks (e.g. LAN/WAN)
- ✓ **High connectivity and varied options for expansion**
 - ▶ Card reader, Mini-PCIe, DisplayPort, HDMI, USB 3.0, 2x LAN, 2x COM port (RS-232/422/485)

Optional accessories: WLN-S

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

DS81 ▼

**Shuttle® Barebone DS437****

Fanless Slim PC with Intel
Celeron dual-core processor

- ✓ **Highly energy-efficient processor with solid desktop performance built in**
 - ▶ Modern Intel Celeron 1037U processor clocked at 2x 1.8 GHz
- ✓ **Intel HD graphics for smooth playback of high-resolution content**
 - ▶ HDMI and DVI-I outputs support full HD
- ✓ **High connectivity**
 - ▶ Card reader, Wi-Fi, Mini-PCIe, USB 3.0, SATA 6 Gbit/s, 2x LAN, 2x COM port (RS-232/422/485)
- ✓ **Possible fields of application**
 - ▶ Digital Signage media player, thin client, micro server, POI/POS (kiosk), industrial PC (regulate, monitor, drive), ultra-slim desktop

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

DS437 ▼



Shuttle® Barebone XH81V***

Strong computing power and remarkable energy efficiency

- ✓ **Socket LGA1150 for the latest processors**
 - ▶ Supports the fourth generation ("Haswell") 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**
 - ▶ DisplayPort, HDMI, USB 3.0, 5.1 Audio, S/PDIF, 2x LAN, 2x COM port (RS-232/422/485)

Optional accessories: PS01, PV02, WLN-S

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

XH61V ▼



Shuttle® Barebone XS35V4*

Remarkable graphics performance – without any fan

- ✓ **Quiet, thanks to entirely passive cooling components**
 - ▶ Practically noiseless and maintenance-free despite Intel Celeron J1900 processor (4x 2 GHz)
- ✓ **Tiny: only approximately 1.5 litre volume**
 - ▶ For more space – wherever it is set up
- ✓ **Full HD**
 - ▶ Intel HD graphics with DisplayPort, HDMI and VGA supports smooth playback of 1080p videos and even delivers 3D performance, if required
 - ▶ Supports 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 Level
•	• •	• •	• • •	• •

XS35GS V3L ▼



Shuttle® Barebone XS35V2

Suitable for continuous operation – fanless Slim PC

- ✓ **Completely fanless, exceptionally quiet**
 - ▶ Practically noiseless and maintenance-free
- ✓ **Power-saving processor with two cores**
 - ▶ Intel Atom D525 with 2x 1.8 GHz built in
- ✓ **Power-efficient**
 - ▶ Only 16 to 25W – cool and reliable
- ✓ **Optical drive possible**
 - ▶ Can be fitted with optical drive and 2.5" HDD/SSD

Optional accessories: PV01, PHD2

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

XS35V2 ▼



Shuttle® Barebone XS36V4*

Shuttle's smallest PC comes fully-loaded

- ✓ **Completely fanless, exceptionally quiet**
 - ▶ Practically noiseless and maintenance-free
 - ▶ Intel Celeron processor J1900 (4x 2 GHz)
- ✓ **Three monitor outputs for flexibility**
 - ▶ Intel HD graphics with DisplayPort, HDMI and VGA 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, LAN

Optional accessories: PV03

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

XS36VL ▼



Shuttle® Barebone X50V3L**

Extremely quiet, efficient and compact All-in-One PC with a 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 device control, digital signage (presentation)

Optional accessories: PF55, PCL69

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

X50V2 Plus ▼



X50V3L ▼



Shuttle® Barebone X70M*

Powerful 18.5" All-in-One PC
solution for Intel
desktop processors

- ✓ **Flexible choice of processor**
 - ▶ Suitable for numerous LGA1155 processors (TDP max. 65 W)
 - ▶ Supports the second and third generation of Intel Core i3/i5/i7 processors
- ✓ **Convenient and space-saving**
 - ▶ Convenient and space-saving
 - ▶ 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, Wi-Fi, Dual Gigabit LAN, webcam, microphone and speakers

Optional accessories: PCL70

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

X70M / X70S ▼



Shuttle® OMNINAS KD20

Network-attached storage
with a surprising ease of use

- ✓ **Ideal entry-level platform**
 - ▶ Multi-language user interface
- ✓ **High-quality chassis in an attractive design**
 - ▶ Made of solid aluminium
 - ▶ Seamless integration into existing environments
- ✓ **Accessible from numerous devices**
 - ▶ PCs, notebooks, smartphones, tablets, smart TVs and games consoles
- ✓ **Low-noise and efficient operation**
 - ▶ The integrated 70-mm fan is activated under heavy load only
 - ▶ Only 9 Watt consumption when idle and approximately 15.5 Watt under normal load

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

KD20 ▼

**Shuttle® OMNINAS KD22****

Powerful storage solution
with built-in Wi-Fi hotspot

- ✓ **High transfer rates**
 - ▶ Up to 110 MB/s when reading and 75 MB/s when writing
- ✓ **Free apps for Android and iOS**
 - ▶ Remote access with the OMNINAS app from mobile devices (smartphones and tablets)
 - ▶ PCs and notebooks can access the NAS via web browser
- ✓ **Hot-swappable dual-bay NAS**
 - ▶ Room for up to two hard drives up to a total capacity of 8000 GB
 - ▶ Best possible level of data security in RAID 1 mode by real-time mirroring
- ✓ **Various server services, protocols and functions integrated**
 - ▶ SMB, AFP, FTP, iTunes, DLNA, PTP, printer server, Torrent, S.M.A.R.T., WOL, 802.3az

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

KD22 / KD21 ▼



Shuttle® OMNINAS KS10

Storage solution with a wireless network connection

- ✓ **Release data in your network the easy way**
 - ▶ SATA hard disks up to 4 TB can be fitted
 - ▶ Swift installation of storage media
- ✓ **Quiet, no fan**
 - ▶ Virtually noiseless
- ✓ **Network connection with 1.000 Mbit**
 - ▶ Quick data transfer between any clients connected
 - ▶ Integrated Access-Point/Hotspot
- ✓ **Ideal as a secondary device**
 - ▶ Auto-backup function from and to other drives in a network

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

KS10 ▼



Mini PC

PC61J

► 300W power supply



PC63J

► 500W power supply



H-RS232

► COM expansion



PHD3

► 2.5 inch HDD/SSD drive holder



WLN-C

► Wi-Fi expansion



Slim PC

PV01

► VESA-mount
75/100 mm



PV02

► VESA-mount
75/100 mm



PV03

► VESA-mount
75/100 mm



PS01

► Vertical stand



PHD2

► 2.5 inch HDD/SSD drive holder



WLN-S

► Wi-Fi expansion



All-in-One PC

PCL68

► COM/LPT expansion



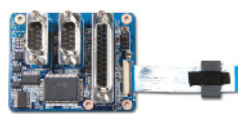
PCL69

► COM/LPT expansion



PCL70

► COM/LPT expansion



PF55

► Carrying bag



Mini PC



Category		Basic	Home-Media	Performance
Model		XPC Barebone SH81R4	XPC Barebone SH67H3 / SH67H7	XPC Barebone SZ77R5
Colour		Black	Black	Black
Complete system with Windows		R4 8100B, R4 8100BA	H3 6700H	R5 7700P
Processor	Socket	LGA1150 (Haswell)	LGA1155 (Ivy Bridge***/Sandy Bridge)	LGA1155 (Ivy Bridge/Sandy Bridge)
	Supports	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 95 W	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	I.C.E. Heatpipe
Memory		2x 240-Pin DIMM-slots, max. 2x 8 GB DDR3-1333, Dual-Channel	4x 240-Pin DIMM-slots, max. 4x 8 GB DDR3-1333, Dual-Channel	4x 240-Pin DIMM-slots, max. 4x 8 GB DDR3-1600, Dual-Channel
Chipset	Northbridge	(Integrated in processor)	(Integrated in processor)	(Integrated in processor)
	Southbridge	Intel H81 Chipset	Intel H67 Express	Intel Z77 Express
	Audio	Realtek ALC662-VC (5.1 ch)	Realtek ALC888 (7.1 ch)	Realtek ALC888S (7.1 ch)
	LAN	Realtek RTL 8111G (Gigabit) supports WOL and PXE	Realtek RTL 8111E (Gigabit) supports WOL and PXE	Realtek 8111E (Gigabit) supports WOL and PXE
Integrated graphics		Intel GMA HD inside processor, UMA*, supports two displays**	Intel GMA HD inside processor, UMA max. 1.692 MB*, supports two displays**	Intel GMA HD inside processor, UMA max. 1.692 MB*, supports two displays**
Expansion slots	Graphics card	1x PCI-Express-x16-2.0, supports dual-slot graphics cards, 6-pin power connector	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+8-pin power connector
	PCI	1x PCI-Express-x1-2.0, 1x Mini-PCIe-x1-2.0 full-size	1x PCI-Express-x1-2.0, 1x Mini-PCIe-x1-2.0 half-size	1x PCIe-x4-2.0, 1x Mini-PCIe-x1-2.0 half-size, 1x Mini-PCIe-x1-2.0 full-size (mSATA support)
Connectors, LEDs and buttons	Front	Microphone, headphones, 2x USB 2.0, Power-LED, HDD-LED, power button	Microphone, headphones, 2x USB 3.0, eSATA/USB 2.0 combo, Power-LED, HDD-LED, power button	Microphone, headphones, 2x USB 3.0, 2x USB 2.0 (1x with Smart USB function), Power-LED, HDD-LED, power button
	Rear	HDMI, DVI-I (digital & analog), 2x USB 3.0, 6x USB 2.0, Gigabit Ethernet, 8-channel audio, clear CMOS button, K-Lock	HDMI (w/ digital audio), DVI-I (digital & analog), 2x USB 3.0, 4x USB 2.0, eSATA, Gigabit Ethernet, 8-channel audio, optical S/PDIF output, clear CMOS button, K-Lock	HDMI (w/ digital audio), DVI-I (digital & analog), 2x USB 3.0, 4x USB 2.0, eSATA, Gigabit Ethernet, 8-channel audio, optical S/PDIF output, clear CMOS button, K-Lock
	Onboard	2x SATA 6 Gbit/s, 1x SATA 3 Gbit/s, RS-232, S/PDIF	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
Drive bays and supported drives		1x 5.25" (for ODD), 2x 3.5" internal (e.g. for HDD, SSD)	1x 5.25" (for ODD), 2x 3.5" internal & external (e.g. for HDD, 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, 10, JBOD
Power supply		300 W 80 PLUS Bronze, Input: 100-240 V AC	300 W 80 PLUS Bronze, Input: 100-240 V AC	500 W 80 PLUS Bronze, Input: 100-240 V AC
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 (LWH) = 13.3 L, 3.2 kg	32.5 x 20.8 x 19.6 cm (LWH) = 12.8 L, 3.2 kg	33.2 x 21.6 x 19.8 cm (LWH) = 14.2 L, 3.5 kg
Permitted ambient parameters		Ambient temp. range: 0-35 °C, Air humidity: 10-90 %	Ambient temp. range: 0-35 °C, Air humidity: 10-90 %	Ambient temp. range: 0-35 °C, Air humidity: 10-90 %
Optional accessories		2.5" HDD/SSD expansion frame (PHD3), COM port (H-RS232), Wi-Fi expansion (WLN-C), PSU 500W (PC63J)	2.5" HDD/SSD expansion frame (PHD3), COM port (H-RS232), Wi-Fi expansion (WLN-C), PSU 500W (PC63J)	2.5" HDD/SSD expansion frame (PHD3), COM port (H-RS232), Wi-Fi expansion (WLN-C)

Mini PC



Category		Performance	Home-Media	Performance
Model		XPC Barebone SX79R5	XPC Barebone SH87R6	XPC Barebone SZ87R6
Colour		Black	Black	Black
Complete system with Windows		R5 7900P, R5 7900S	R6 8700H	R6 8700S, R6 8710P
Processor	Socket	LGA2011 (Ivy Bridge E***/Sandy Bridge E)	LGA1150 (Haswell)	LGA1150 (Haswell)
	Supports	Intel Core i7	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	I.C.E. Heatpipe
Memory		4x 240-Pin DIMM-slots, max. 4x 8 GB DDR3-1600, Quad-Channel	4x 240-Pin DIMM-slots, max. 4x 8 GB DDR3-1600, Dual-Channel	4x 240-Pin DIMM-slots, max. 4x 8 GB DDR3-1600, Dual-Channel
Chipset	Northbridge	(Integrated in processor)	(Integrated in processor)	(Integrated in processor)
	Southbridge	Intel X79 Express	Intel H87 Chipset	Intel Z87 Chipset
	Audio	Realtek ALC888S (7.1 ch)	Realtek ALC888S (7.1 ch)	Realtek ALC888S (7.1 ch)
	LAN	2x Realtek 8111E (Gigabit) w/ WOL and Teaming	Realtek 8111E (Gigabit) supports WOL and PXE	2x Realtek 8111E (Gigabit) w/ WOL, PXE and Teaming
Integrated graphics		-	Intel GMA HD inside processor, UMA*, supports two displays**	Intel GMA HD inside processor, UMA*, supports two displays**
Expansion slots	Graphics card	2x PCI-Express-16-3.0, supports 2x single-slot or 1x dual-slot graphics cards, 6+8 pin power connector, AMD CrossFire/NVIDIA SLI support	1x PCI-Express-x16-3.0, supports dual-slot graphics cards, 6 pin power connector	1x PCI-Express-x16-3.0, supports dual-slot graphics cards, 6+8 pin power connector
	PCI	1x Mini-PCIe-x1-2.0 half-size, 1x Mini-PCIe-x1-2.0 full-size (mSATA support)	1x PCIe-x1-2.0, 1x Mini-PCIe-x1-2.0 half-size, 1x Mini-PCIe-x1-2.0 full-size (mSATA support)	1x PCIe-x1-2.0, 1x Mini-PCIe-x1-2.0 half-size, 1x Mini-PCIe-x1-2.0 full-size (mSATA support)
Connectors, LEDs and buttons	Front	Microphone, headphones, 2x USB 3.0, 2x USB 2.0 (1x with Smart USB function), Power-LED, HDD-LED, power button	Microphone, headphones, 2x USB 3.0, 2x USB 2.0 (1x with Smart USB function), Power-LED, HDD-LED, power button	Microphone, headphones, 2x USB 3.0, 2x USB 2.0 (1x with Smart USB function), Power-LED, HDD-LED, power button
	Rear	2x USB 3.0, 6x USB 2.0, 2x Gigabit Ethernet, eSATA + power connector, 8-channel audio, optical S/PDIF output, clear CMOS button, K-Lock	HDMI (w/ digital audio), DVI-I (digital & analog), 2x USB 3.0, 4x USB 2.0, eSATA, Gigabit Ethernet, 8-channel audio, optical S/PDIF output, clear CMOS button	HDMI (w/ digital audio), DVI-I (digital & analog), 2x USB 3.0, 4x USB 2.0, eSATA, 2x Gigabit Ethernet, 8-channel audio, optical S/PDIF output, clear CMOS
	Onboard	2x SATA 6 Gbit/s, 2x SATA 3 Gbit/s, 4x USB 2.0, RS-232	4x SATA 6 Gbit/s, 2x USB 2.0, RS-232	4x SATA 6 Gbit/s, 2x 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	1x 5.25" (for ODD), 2x 3.5" internal & external (e.g. for HDD, SSD, card reader), supports RAID 0, 1, 5, 10, JBOD and SRT	1x 5.25" (for ODD), 2x 3.5" internal & external (e.g. for HDD, SSD, card reader), supports RAID 0, 1, 5, 10, JBOD and SRT
Power supply		500 W 80 PLUS Bronze, Input: 100-240 V AC 50/60 Hz	300 W 80 PLUS Bronze, Input: 100-240 V AC 50/60 Hz	500 W 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 (LWH) = 14.2 L, 3.5 kg	33.2 x 21.6 x 19.8 cm (LWH) = 14.2 L, 3.5 kg	33.2 x 21.6 x 19.8 cm (LWH) = 14.2 L, 3.5 kg
Permitted ambient parameters		Ambient temp. range: 0-35 °C, Air humidity: 10-90 %	Ambient temp. range: 0-35 °C, Air humidity: 10-90 %	Ambient temp. range: 0-35 °C, Air humidity: 10-90 %
Optional accessories		2.5" HDD/SSD expansion frame (PHD3), COM port (H-RS232), Wi-Fi expansion (WLN-C)	2.5" HDD/SSD expansion frame (PHD3), COM port (H-RS232), Wi-Fi expansion (WLN-C), PSU 500W (PC63J)	2.5" HDD/SSD expansion frame (PHD3), COM port (H-RS232), Wi-Fi expansion (WLN-C)

* The integrated video outputs cannot be used, if the processor installed does not have an integrated graphics function. ** Up to four displays are supported, if a PCI-Express-x16 graphics card is installed.

*** from BIOS version .201

Slim PC



Category		Professional	Professional	Home-Media
Model		Barebone DS81*	Barebone DS437**	Barebone XH81V***
Colour		Black	Black	Black
Complete system with Windows		D 8100B, D 8100BA	D 4370B, D 4370BA	X 8110B, X 8110BA
Processor	Socket	LGA1150 (Haswell)	(Soldered processor)	LGA1150 (Haswell)
	Supports	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 65 W	Intel Celeron 1037U (2x 1.8 GHz, 2 Threads)	Intel Core i3/i5/i7, Pentium, Celeron, TDP max. 65 W
	Cooling	I.C.E. Heatpipe	Passive, fanless	I.C.E. Heatpipe
Memory		2x 204-Pin SO-DIMM-slots, max. 2x 8 GB DDR3-1600, Dual-Channel	2x 204-Pin SO-DIMM-slots, max. 2x 8 GB DDR3-1333, Dual-Channel	2x 204-Pin SO-DIMM-slots, max. 2x 8 GB DDR3-1600, Dual-Channel
Chipset	Northbridge	(Integrated in processor)	(Integrated in processor)	(Integrated in processor)
	Southbridge	Intel H81 Chipset	Intel NM70 Express	Intel H81 Chipset
	Audio	Realtek ALC662-VC (5.1 ch)	IDT 92HD81	Realtek ALC662-VC (5.1 ch)
	LAN	2x Realtek 8111G (Gigabit) supports WOL and PXE	2x Realtek 8111G (Gigabit) supports WOL and PXE	2x Realtek 8111G (Gigabit) supports WOL and PXE
Wireless network, WiFi			802.11b/g/n, 150 Mbit	
Integrated graphics		Intel HD Graphics inside processor, UMA, supports two displays	Intel HD graphics inside processor, UMA, supports two displays	Intel HD Graphics inside processor, UMA, supports two displays
Expansion slots	Graphics card	–	–	–
	PCI	1x Mini-PCIe-x1-2.0 half-size, 1x Mini-PCIe-x1-2.0 full-size (mSATA support)	1x Mini-PCIe-x1-2.0 full-size (mSATA support)	1x Mini-PCIe-x1-2.0 half-size, 1x Mini-PCIe-x1-2.0 full-size (mSATA support)
Connectors, LEDs and buttons	Front	Microphone, headphones, 4x USB 2.0, card reader, Power-LED, HDD-LED, power button	4x USB 2.0, 2x COM port (RS-232 and RS-232/422/485), card reader, Power-LED, HDD-LED, power button	Microphone, headphones, 2x USB 2.0, power button with LED
	Rear	HDMI (w/ digital audio), 2x DisplayPort, 2x USB 3.0, 2x Gigabit Ethernet, 2x COM port (RS-232 and RS-232/422/485), remote Power-On, K-Lock	HDMI (w/ digital audio), DVI-I (digital & analog), 2x USB 3.0, microphone, headphones, 2x Gigabit Ethernet, remote Power-On, K-Lock	HDMI (w/ digital audio), 2x DisplayPort, 2x USB 3.0, 2x USB 2.0, 6-channel audio, S/PDIF, 2x Gigabit Ethernet, 2x COM port (RS-232 and RS-232/422/485), K-Lock
	Onboard	6x USB 2.0, S/PDIF, 1x SATA 6 Gbit/s, 1x SATA 6 Gbit/s, LPC, VGA, "Power-on-after-power-fail" jumper	1x SATA 6 Gbit/s	2x SATA 6 Gbit/s, 1x SATA 3 Gbit/s, VGA
Drive bays and supported drives		1x 2.5" supports 1x 2.5" HDD/SSD, card reader: SD, SDHC & SDXC	1x 2.5" supports 1x 2.5" HDD/SSD, card reader: SD, SDHC & SDXC	2x 2.5" and 1x slimline supports up to 3x 2.5" HDD/SSD or 1x optical slimline drive with 2x 2.5" HDD/SSD
Power supply		External 90 W power supply unit, Output: 19 V DC, Input: 100-240 V AC	External 65 W power supply unit, Output: 19 V DC, Input: 100-240 V AC	External 90 W power supply unit, Output: 19 V DC, Input: 100-240 V AC
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		Steel	Steel	Steel
Dimensions and weight		19 x 16.5 x 4.3 cm (LWH) = 1.35 L, 1.3 kg	20 x 3.95 x 16.5 cm (LWH) = 1.3 L, 1.43 kg	24 x 20 x 7.2 cm (LWH) = 3.5 L, 2.2 kg
Permitted ambient parameters		Ambient temp. range: 0-50 °C, Air humidity: 10-90 %	Ambient temp. range: 0-35 °C, Air humidity: 10-90 %	Ambient temp. range: 0-35 °C, Air humidity: 10-90 %
Optional accessories		Wi-Fi expansion (WLN-S)		Wi-Fi (WLN-S), vertical stand (PS01), VESA (PV02)

Slim PC



Category		Basic	Home-Media	Professional
Model		XS35V2	XS35V4*	XS36V4*
Colour		Black	Black	Black
Complete system with Windows		XS 3500B2, XS35-703 V2	XS 3500B4	XS 3600B4
Processor	Model	Intel Atom D525	Intel Celeron J1900	Intel Celeron J1900
	Clock speed	2x 1.8 GHz, 4 Threads	4x 2 GHz, 4 Threads	4x 2 GHz, 4 Threads
	Cooling	Passive, fanless	Passive, fanless	Passive, fanless
Memory		1x 204-Pin SO-DIMM-slots, max. 1x 4 GB DDR3-800	2x 204-Pin SO-DIMM-slots, max. 2x 2 GB DDR3L-1333	2x 204-Pin SO-DIMM-slots, max. 2x 2 GB DDR3L-1333
Chipset	Northbridge	(Integrated in processor)	(Integrated in processor)	(Integrated in processor)
	Southbridge	Intel NM10	(Integrated in processor)	(Integrated in processor)
	Audio	IDT 92HD81	Realtek ALC269	Realtek ALC269
	LAN	Realtek RTL8188CE (Gigabit) supports PXE	Realtek RTL8411 (Gigabit) supports WOL	Realtek RTL8411 (Gigabit) supports WOL
Wireless network, WiFi		802.11b/g/n, 150 Mbit	802.11b/g/n, 150 Mbit	802.11b/g/n, 150 Mbit
Integrated graphics		Intel GMA 3150, UMA max. 256 MB	Intel HD Graphics, UMA, supports two displays	Intel HD Graphics, UMA, supports two displays
Expansion slots	Graphics card	-	-	-
	PCI	-	-	-
Connectors, LEDs and buttons	Front	1x USB 2.0, card reader, Power-LED, HDD-LED, power button	1x USB 2.0, card reader, Power-LED, HDD-LED, power button	2x RS-232, 1x USB 2.0, card reader, Power-LED, HDD-LED, power button
	Rear	VGA, 4x USB 2.0, microphone, headphones, Gigabit Ethernet, power supply, K-Lock	HDMI (w/ digital audio), DisplayPort, VGA, 1x USB 3.0, 3x USB 2.0, microphone, headphones, Gigabit Ethernet, power supply, K-Lock	HDMI (w/ digital audio), DisplayPort, VGA, 1x USB 3.0, 3x USB 2.0, microphone, headphones, Gigabit Ethernet, power supply, K-Lock
	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		1x 2.5" and 1x slimline, supports 1x 2.5" HDD/SSD and 1x optical slimline drive, card reader: SD, SDHC, SDXC	1x 2.5" and 1x slimline, supports 1x 2.5" HDD/SSD and 1x optical slimline drive, card reader: SD, SDHC, SDXC	1x 2.5", supports 1x 2.5" HDD/SSD, card reader: SD, SDHC, SDXC
Power supply		External 40 W power supply unit, Output: 19 V DC, Input: 100-240 V AC	External 40 W power supply unit, Output: 19 V DC, Input: 100-240 V AC	External 40 W power supply unit, Output: 19 V DC, Input: 100-240 V AC
BIOS		AMI BIOS supports ACPI 3.0	AMI BIOS supports ACPI 3.0 and UEFI	AMI BIOS supports ACPI 3.0 and UEFI
Dimensions and weight		25.2 x 16.2 x 3.85 cm (LWH) = 1.57 L, 2.1 kg	25.2 x 3.85 x 16.2 cm (LWH) = 1.57 L, 2.1 kg	22 x 3.6 x 16 cm (LWH) = 1.15 L, 1.6 kg
Permitted ambient parameters		Ambient temp. range: 0-35 °C, Air humidity: 10-90 %	Ambient temp. range: 0-35 °C, Air humidity: 10-90 %	Ambient temp. range: 0-35 °C, Air humidity: 10-90 %
Optional accessories		VESA mount (PV01), 2nd HDD/SSD expansion (PHD2)	VESA mount (PV01), 2nd HDD/SSD expansion (PHD2)	VESA mount (PV03)

All-in-One PC



Category		Professional	Professional	Professional / Home-Media
Model		X50V2 Plus	X50V3L	X70M**
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/Socket	Intel Atom D525	Intel Atom D2550	Intel Core i3/i5/i7, Pentium, Celeron (LGA1155, TDP max. 65 W, Ivy Bridge/Sandy Bridge)
	Clock speed	2x 1.8 GHz, 4 Threads	2x 1.86 GHz, 4 Threads	(Depending on processor)
	Cooling	Passive, fanless	Passive, fanless	I.C.E. Heatpipe
Memory		2x 204-Pin SO-DIMM-slots, max. 2x 2 GB DDR3-800	2x 204-Pin SO-DIMM-slots, max. 2x 2 GB DDR3-1066	2x 204-Pin SO-DIMM-slots, max. 2x 8 GB DDR3-1600
Chipset	Northbridge	(Integrated in processor)	(Integrated in processor)	(Integrated in processor)
	Southbridge	Intel NM10	Intel NM10	Intel H61 Express
	Audio	IDT 92HD81	IDT 92HD87	Realtek ALC269
	LAN	Realtek RTL8411 (Gigabit) supports WOL	Realtek RTL8411 (Gigabit) supports WOL	2x Realtek 8111E (Gigabit) supports WOL and PXE
Wireless network, WiFi		802.11b/g/n, 150 Mbit	802.11b/g/n, 150 Mbit	802.11b/g/n, 300 Mbit
Integrated graphics		Intel GMA 3150, UMA max. 265 MB, supports dual-monitoring	Intel GMA 3650, UMA max. 384 MB, supports two displays	Intel GMA HD integrated in processor, UMA max. 1.692 MB, supports two displays
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, single-touch	Resistive, single-touch	Resistive, multi-touch
Communication	Webcam	2.0 Megapixel (1.600 x 1.200)	2.0 Megapixel (1.600 x 1.200)	2.0 Megapixel (1.600 x 1.200)
	Speakers and microphone	2x 2 W speakers, capacitor microphone	2x 2 W speakers, capacitor microphone	2x 2 W speakers, capacitor microphone
Connectors, LEDs and buttons	Front	Power-LED, HDD-LED, WLAN-LED	Power-LED, HDD-LED, WLAN-LED	Power-LED, HDD-LED
	Rear	VGA, (optional: 2x RS-232, 1x LPT), K-Lock	HDMI (w/ digital audio), VGA, (optional: 2x RS-232, 1x LPT), K-Lock	HDMI (w/ digital audio), microphone, headphones, 2x USB 3.0, 2x USB 2.0, 1x RS-232, 2x Gigabit Ethernet, power supply, (optional: 2x RS-232, 1x LPT), K-Lock
	Side	Microphone, headphones, 4x USB 2.0, Ethernet, power supply, power button	Microphone, headphones, 4x USB 2.0, Gigabit Ethernet, power supply, power button	4x USB 2.0, power button
Drive bays and supported drives		1x 2.5", supports 1x 2.5" HDD/SSD, internal port: 1x SATA 3 Gbit/s, card reader: SD, SDHC & SDXC	1x 2.5", supports 1x 2.5" HDD/SSD, internal port: 1x SATA 3 Gbit/s, card reader: SD, SDHC & SDXC	1x 2.5", supports 1x 2.5" HDD/SSD, internal port: 2x SATA 3 Gbit/s, card reader: SD, SDHC & SDXC
Power supply		External 40 W power supply unit, Output: 19 V DC, Input: 100-240 V AC	External 40 W power supply unit, Output: 19 V DC, Input: 100-240 V AC	External 120 W power supply unit, Output: 19 V DC, Input: 100-240 V AC
BIOS		AMI BIOS supports ACPI 3.0	AMI BIOS supports ACPI 3.0	AMI BIOS support ACPI 2.0 and UEFI
Dimensions and weight		3.6 x 39.13 x 32.7 cm (LWH), 2.93 kg	4.2 x 39.13 x 32.7 cm (LWH), 2.93 kg	5.7 x 46.8 x 36.4 cm (LWH), 4.6 kg
Permitted ambient parameters		Ambient temp. range: 0-35 °C, Air humidity: 10-90 %	Ambient temp. range: 0-35 °C, Air humidity: 10-90 %	Ambient temp. range: 0-40 °C, Air humidity: 10-90 %
Optional accessories		COM/LPT expansion (PCL68), carrying bag (PF55)	COM/LPT expansion (PCL69), carrying bag (PF55)	COM/LPT expansion (PCL70)

NAS



Category		Home-Media	Performance	Home-Media
Model		OMNINAS KD20	OMNINAS KD22***	OMNINAS KS10
Colour		White/silver	Black	Black
Processor	Model	PLX NAS 7821	Marvell 88F6707	Marvell 88F6707
	Clock speed	2x 750 MHz	1.2 GHz	800 MHz
Memory		256 MB	512 MB	256 MB
Wireless network, WiFi		–	Integrated Access-Point/Hotspot	Integrated Access-Point/Hotspot
Connectors, LEDs and buttons	Front	1x USB 3.0, card reader, status-LED, card reader-LED, USB-LED, HDD-LEDs, power button	2x USB 3.0, card reader, status-LED, card reader-LED, USB-LED, HDD-LEDs, power button	1x USB 2.0, card reader, status-LED, card reader-LED, USB-LED, HDD-LEDs
	Rear	2x USB 2.0, Gigabit Ethernet, power supply, reset button, K-Lock	1x USB 2.0, Gigabit Ethernet, power supply, reset button, K-Lock	1x USB 2.0, Gigabit Ethernet, power supply, power button, reset button, K-Lock
Drive bays and supported drives		2x 2.5" or 3.5" for HDDs/SSDs up to a total of 8 TB, supports RAID-0,1, JBOD, single disk	2x 2.5" or 3.5" for HDDs/SSDs up to a total of 8 TB, supports RAID-0,1, JBOD, single disk, dual single disk	1x 3.5" for HDD/SSD up to 4 TB
Card reader		Supports SD, SDHC and SDXC	Supports SD, SDHC and SDXC	Supports SD, SDHC and SDXC
Networking services		Samba server (SMB file sharing), Apple File Protocol (AFP), media server Twonky (supports DLNA), iTunes server, printer server (supports USB printer), BT downloads without PC (scheduled), external storage device sharing (via USB or card reader), NTP support for scheduled time synchronisation	Samba server (SMB file sharing), Apple File Protocol (AFP), FTP server, media server Twonky (supports DLNA), iTunes server, printer server (supports USB printer), BT downloads (scheduled), external storage device sharing (via USB or card reader), NTP support for scheduled time synchronisation, PTP, WOL, Energy Efficient Ethernet (802.3az)	Samba server (SMB file sharing), Apple File Protocol (AFP), FTP server, media server Twonky (supports DLNA), iTunes server, printer server (supports USB printer), BT downloads (scheduled), external storage device sharing (via USB or card reader), NTP support for scheduled time synchronisation, PTP, WOL, Energy Efficient Ethernet (802.3az)
Built-in backup functions		Auto Copy for external storage (from USB 3.0 or card reader to NAS), NAS to USB storage backup, NAS to NAS backup	Auto Copy for external storage (from USB 3.0 or card reader to NAS), NAS to USB storage backup, NAS to NAS backup	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 update, time zone settings, factory reset, system log report	Online firmware update, time zone settings, factory reset, system log report	Online firmware update, time zone settings, factory reset, system log report
Mobile use		Free apps for mobile devices with Android and iOS, access via browser	Free apps for mobile devices with Android and iOS, access via browser	Free apps for mobile devices with Android and iOS, access via browser
Power adapter		External 65 W power supply unit, Output: 19 V DC, Input: 100-240 V AC	External 65 W power supply unit, Output: 19 V DC, Input: 100-240 V AC	External 45 W power supply unit, Output: 19 V DC, Input: 100-240 V AC
Material		Aluminium, plastic	Aluminium, plastic	Plastic
Dimensions and weight		22.5 x 9 x 17 cm (LWH) = 3.44 L, 2.2 kg	22.5 x 9 x 17 cm (LWH) = 3.44 L, 2.2 kg	20.5 x 6 x 12.4 cm (LWH) = 1.52 L, 0.5 kg
Permitted ambient parameters		Ambient temperature range: 5-35 °C, Air humidity: 10-90 %	Ambient temperature range: 5-35 °C, Air humidity: 10-90 %	Ambient temperature range: 5-35 °C, Air humidity: 10-90 %

Face Recognition



Category		Face Recognition Solution		Face Recognition Solution	
Model		HR70S*		HR70*	
Colour		Black		Black	
Processor	Model	Intel Celeron 847		Intel Celeron 847	
	Clock speed	2x 1.1 GHz, 2 Threads		2x 1.1 GHz, 2 Threads	
Memory		2 GB DDR3		2 GB DDR3	
Internal storage		32 GB mSATA SSD		32 GB mSATA SSD	
Screen		7", 16:9, LED backlight, 1024x600, single-touch		7", 16:9, LED backlight, 1024x600, single-touch	
Camera		2x Full-HD, simultaneous detection, LED light		2x Full-HD, simultaneous detection, LED light	
Security		Face recognition		Face recognition, fingerprint recognition, RFID card	
Communication		2 W speakers, microphone		2 W speakers, microphone	
Network		Gigabit Ethernet, Wi-Fi 802.11b/g/n, 150 Mbit (optional)		Gigabit Ethernet, Wi-Fi 802.11b/g/n, 150 Mbit (optional)	
Face recognition	Speed	2-3 seconds		2-3 seconds	
	Rate	FAR default 0.01%, FRR 1.9% (under FAR 0.01%)		FAR default 0.01%, FRR 1.9% (under FAR 0.01%)	
Connectors, LEDs and buttons		HDMI, audio IN/OUT, USB 2.0, USB 3.0, RS-232, RS-485, GPIO, power supply		HDMI, audio IN/OUT, USB 2.0, USB 3.0, RS-232, RS-485, GPIO, power supply	
Integrated graphics		Intel HD graphics		Intel HD graphics	
Operating system		Ubuntu Linux		Ubuntu Linux	
Power supply		External 65 W power supply unit		External 65 W power supply unit	
Dimensions and weight		3.1 x 19.5 x 23 cm (LWH), 1.63 kg		4.9 x 23 x 25.5 cm (LWH), 1.83 kg	
Optional accessories		-		-	

ARM



Category		ARM-based Digital Signage Player		ARM-based Digital Signage Player	
Model		DSA2LS*		DSA2LE*	
Colour		Black		Black	
Processor	Model	Freescaler i.MX 6 DualLite Processor, ARM Cortex-A9 based		Freescaler i.MX 6 DualLite Processor, ARM Cortex-A9 based	
	Clock speed	2x 1 GHz		2x 1 GHz	
	Cooling	Passive, fanless		Passive, fanless	
Memory		1 GB DDR3 DRAM, 4 GB eMMC Flash Memory		1 GB DDR3 DRAM, 4 GB eMMC Flash Memory	
Network		Gigabit Ethernet		Gigabit Ethernet	
Wireless network, Wi-Fi		802.11b/g/n, 150 Mbit		802.11b/g/n, 150 Mbit	
Integrated graphics		Supports dual monitoring at 1080p resolution, video codec supports either single 1080p playback or dual-playback at 720p resolution		Supports dual monitoring at 1080p resolution, video codec supports either single 1080p playback or dual-playback at 720p resolution	
Connectors, LEDs and Buttons	Front	Mini-USB 2.0, 3x USB 2.0, card reader, Power-LED, power button		Mini-USB 2.0, 3x USB 2.0, card reader, Power-LED, power button	
	Rear	HDMI, VGA, audio line-out, Gigabit Ethernet, COM port (RS-232), remote Power-On, reset button, Wi-Fi antenna, power supply		HDMI, VGA, audio line-out, Gigabit Ethernet, COM port (RS-232), remote Power-On, reset button, Wi-Fi antenna	
	Side	K-Lock		K-Lock	
Drive bays and supported drives		Card reader: SD, SDHC & SDXC		Card reader: SD, SDHC & SDXC	
Operating system		Android 4.2 or Linux		Android 4.2 or Linux	
Power supply		Internal		Power over Ethernet (PoE)	
Material		Steel		Steel	
Dimensions and weight		14.2 x 19 x 3.5 cm (LWH)		14.2 x 19 x 3.5 cm (LWH)	
Permitted ambient parameters		Ambient temperature range: 0-45 °C, Air humidity: 10-95 %		Ambient temperature range: 0-45 °C, Air humidity: 10-95 %	
Optional accessories		VESA mount		VESA mount	

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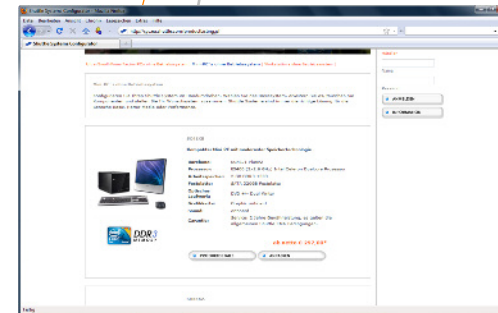
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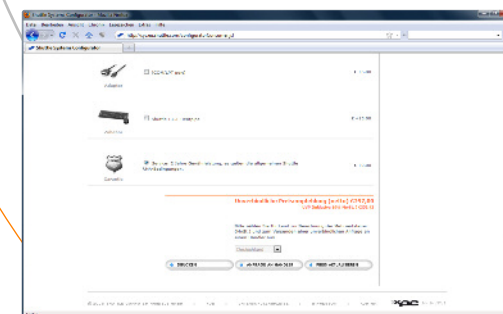


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Issue Q2/2014

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