

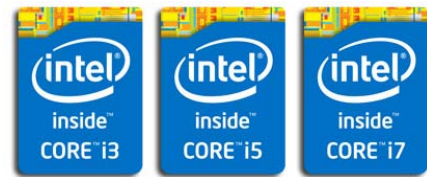
Stylish, flexible, powerful: Shuttle Mini-PC with Intel H97 chipset

The Shuttle BTO-System R6 9700H zieht dank seines kompakten Aluminiumgehäuses nicht nur die Blicke auf sich, sondern überzeugt als durchdachte Lösung mit hoher Performance und Flexibilität. Bereits auf Basis eines kostengünstigen Intel Celeron-Prozessors der Haswell-Baureihe lässt sich ein vollwertiger Mini-PC für drei Displays realisieren. Wird mindestens ein Intel Core i3 Prozessor verwendet, lassen sich selbst Videos in 4K-Auflösung auf einem Ultra-HD-Display flüssig wiedergegeben. Für Highend-Gaming oder 3D/CAD-Anwendungen lässt sich eine entsprechende Grafikkarte auswählen. Auch bei maximaler Bestückung mit Dual-Slot Grafikkarte, Core i7 Prozessor, 32GB Speicher, mSATA-SSD, zwei Festplatten und Blu-ray-Laufwerk läuft dieser PC dank eingebauter Heatpipe-Kühlung zuverlässig und geräuscharm.

Feature Highlights

| | |
|-----------------------------|---|
| R6 chassis | <ul style="list-style-type: none"> • Black aluminium chassis (14.2 litre) • Bays: 1x 5.25", 2x 3.5" (1x external) |
| Operating System | <ul style="list-style-type: none"> • Windows 7 Home Premium / Professional oder Windows 8.1 / Pro |
| CPU | <ul style="list-style-type: none"> • Intel® Core i3, i5, i7, Pentium or Celeron Socket LGA 1150 "Haswell" processors • Shuttle I.C.E. Heatpipe cooling system |
| Chipset | <ul style="list-style-type: none"> • Intel® H97 Platform Controller Hub (PCH) |
| Graphics | <ul style="list-style-type: none"> • Intel HD graphics supports three FullHD-displays or one Ultra HD 4K display (2160p) • Optional PCI Express X16 graphics card |
| Memory | <ul style="list-style-type: none"> • Up to 32 GB DDR3-1600 memory |
| Storage | <ul style="list-style-type: none"> • Optional 5.25" DVD or Blu-ray drive • Up to three mass storage drives 3,5" hard disk, 2.5" SSD and mSATA/SSD card |
| Connectors | <ul style="list-style-type: none"> • Digital Video: 2x DisplayPort and HDMI • Audio: 7.1-ch Line-out, Line-in, Microphone • GigaBit LAN (RJ45) • 4x USB 3.0, 6x USB 2.0, 1x External SATA |
| PSU | <ul style="list-style-type: none"> • 300 Watt power supply (80 PLUS Bronze) |
| Optional accessories | <ul style="list-style-type: none"> • COM-Port (H-RS232), Wireless LAN (WLN-C), 500W 80 PLUS Silver power supply (PC63J) |

xPC BTO System R6 9700H



Configurable with the
4th Generation of Intel Core Processors

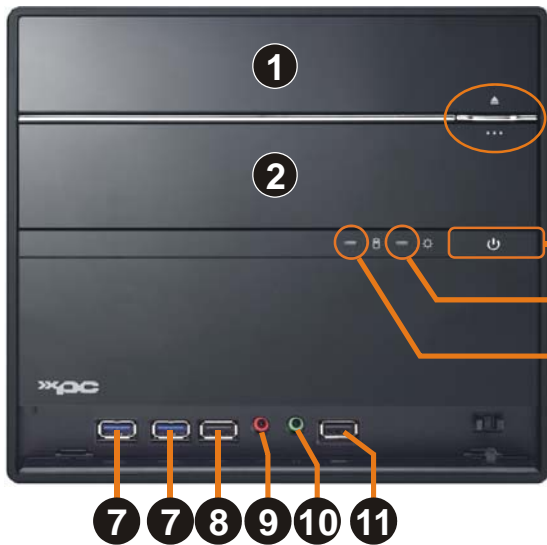


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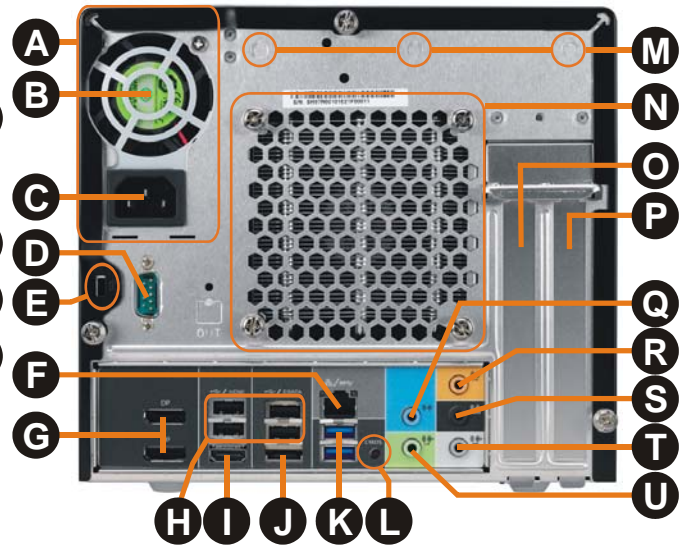
Shuttle XPC BTO-System R6 9700H – Connectors

Front View



- 1 Eject button (optical drive)
- 2 5.25" bay (optical drive)
- 3 3.5" bay with door
- 4 Hard disk LED indicator
- 5 Power LED indicator
- 6 Power button
- 7 2x USB 3.0 ports
- 8 USB 2.0 port
- 9 Microphone input
- 10 Headphone output
- 11 USB 2.0 port with fast charger

Rear View



- A Built-in power supply
- B Power supply fan
- C AC power connector
- D RS232 COM port (optional)
- E Hole for the Kensington lock
- F Gigabit LAN network (RJ45)
- G 2x DisplayPort audio/video output
- H 4x USB 2.0 port
- I HDMI audio/video output
- J External Serial ATA (eSATA)
- K 2x USB 3.0 port
- L Clear CMOS button
- M 3x perforation for WLAN antenna
- N Heatpipe cooling system
- O PCI-Express x16 slot
- P PCI-Express x4 slot
- Q Audio Line-in
- R Audio Line-out (Surround Center/Bass)
- S Audio Line-out (Surround Rear)
- T Audio Line-out (Surround Side)
- U Audio Line-out (Surround Front)

Shuttle XPC BTO-System R6 9700H – Special Product Features



The R6 chassis design: a clean and modern look

R6 is the new chassis design for the middle / high-end series XPCs in 2015. Shuttle has always placed great emphasis on the interior and exterior aesthetics of the XPC with the belief that a good blend of style and form factor will enable the XPC to be attractive, versatile, and work well in almost any environment. The chassis and case cover are made of aluminium and come with a sleek brushed metal front fascia. The drives and front panel connectors are elegantly hidden by drive doors for superior style and visual appeal.



Small, but easy to install

Shuttle XPCs offer the performance of a desktop PC at a third of the size while using standard desktop components. Shuttle keeps the concept of being "futureproof" in mind when designing the new R6 chassis. The meticulously designed internal layout is tidy and makes installation of components easy.



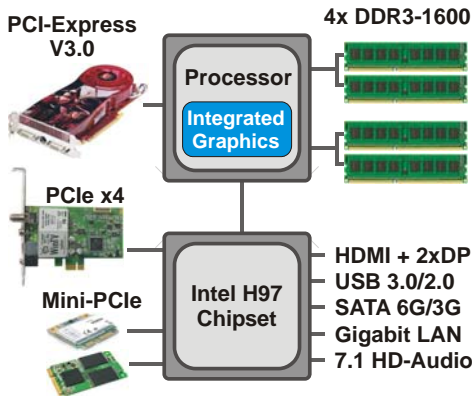
Supports Intel 22nm Haswell Processors

Haswell is the codename for Intel's 4th Generation of Core Processors with socket LGA1150 introduced in 2013 along with the 8-Series chipsets, now superseded by the 9-Series chipsets in 2014. One monolithic die incorporates up to four CPU cores, the shared L3 cache, the memory controller, PCIe links, the graphics processor and now also the integrated voltage regulator (IVR). The 4th generation of Intel Core processors brings the highest performance currently available in mainstream computing with the additional benefit of superior graphics support. It provides a better branch prediction, a doubling of the bandwidth of both the L1 and the L2 caches and integrates a new generation of integrated HD graphics circuitry with a new level of performance for 3D games and HD media playback.



Integrated Cooling Engine (I.C.E.)

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



Single-Chip Chipset: Intel H97

The Shuttle XPC BTO-System R6 9700H sports Intel's H97 Platform Controller Hub (PCH) which is from the 9-Series, codenamed "Wildcat Point". The H97 chipset consists of a single chip and integrates the hard drive controller, network controller, firmware interface, PCIe links, USB and other input/output interfaces.



80 PLUS BRONZE certified 300W Power Supply

The Shuttle XPC BTO-System R6 9700H is equipped with a rock-stable built-in 300W power supply which was tested with the latest graphics cards and powerful Core i3/i5/i7 processors. Its 80 Plus Bronze logo indicates that it provides more than 82/85/82% of energy efficiency at 20/50/100% of rated load. This means a reduction of energy consumption while it increases the computer's reliability. In addition, the power supply uses a 50mm cooling fan providing the same airflow, but spins at a slower speed than previous 40mm models to make the system run even more quietly.



Energy efficiency

The Shuttle XPC BTO-System R6 9700H is an excellent choice when performance and energy efficiency matter. Simply opt for a power-optimised processor and do away with an additional graphics card. Here are some measured values of a sample configuration:

- Soft-Off mode (S5, BIOS: ErP=on): 0.31 W
- Standby mode (S3): 1.39 W
- Idle mode: 19.8 W
- Benchmark (Passmark / Prime 95): 56.1W / 96.4 W

Configuration: R6 9700H, CPU: Intel Core i5-4690S ES (3.2 / 3.9 GHz, 65W TDP), 4x 4GB DDR3-1600, SATA-6G SSD 120GB, Windows 8 Pro



Supports up to 32 GB of memory

The Shuttle XPC BTO-System R6 9700H supports up to 32 GB of DDR3-1600 memory which is ideal for workstations powered by 64-bit operating systems. This enables users to take full advantage of high-performance configurations.



SATA 3.0 with up to 6 Gbit/s speed

The Shuttle XPC BTO-System R6 9700H sports four onboard Serial ATA ports Revision 3.0 delivering super-fast 6 Gbps link speeds for twice the data transfer rates of SATA Revision 2.0 (3 Gbps). A move from SATA 3 Gbit/s to SATA 6 Gbit/s allows the new generation of Solid-State Drives (SSDs) to work at their full speed. As for standard hard disks (HDDs), read times from their built-in DRAM cache will be faster, too.



External Serial ATA (eSATA)

Until the introduction of USB 3.0, the External Serial ATA port (eSATA) was the best choice for high data transfer rates for external hard disks. Its speed is up to six times faster than USB 2.0 and it allows for up to two meters of shielded data cables.



Supports one optical drive and two hard disks

Users can install one optical drive and up to two hard disks (or SSDs) into the R6 9700H. But what about heat? The solution is obvious - the drive rack built into the R6 9700H leaves space between the hard disks to improve airflow. Intelligently-engineered airflow mechanics channels cool air where it is needed most - protecting components and providing optimum performance.



4x USB 3.0

The Shuttle XPC BTO-System R6 9700H sports four USB 3.0 ports (2x front and 2x rear) besides six USB 2.0 ports. USB 3.0 achieves a maximum data transfer rate of up to 5.0Gbps (640MBytes/sec) which is ten times faster than USB 2.0. USB 3.0 is fully compatible to USB 2.0.



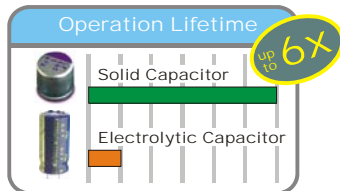
Quick charge USB port for Apple iPhone/iPad

The USB port on the right side of the front panel (marked with a flash symbol) does not only serve as a normal USB port, it can also be used as a quick charge port for your Apple iPhone/iPad. Simply charge as quickly from your Shuttle XPC as from a wall socket. Moreover, it charges your Apple device even if your PC is turned off. By supporting a maximum current of 2A, it will cut down on charging time significantly as compared to traditional USB ports.



7.1 HD Audio capabilities

The Shuttle XPC BTO-System R6 9700H supports 7.1 channel audio via four analog stereo audio ports. In addition, HDMI and DisplayPorts combine a high-bandwidth video signal with digital audio in one single port.



Solid Capacitors

By using all-solid capacitors (except the audio part) Shuttle mainboards are long-life and provide industry leading stability and reliability. The average lifespan of one solid capacitor is more than six times higher than the more common and less expensive electrolytic capacitors.

Shuttle XPC BTO-System R6 9700H – Graphics Features



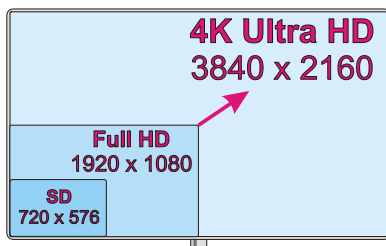
PCI-Express v3.0 for high-performance graphics cards

The Shuttle XPC BTO-System R6 9700H supports the new PCI-Express x16 Version 3.0 specification in combination with the 22nm Intel Haswell processor slot delivering a bandwidth of up to 16GB/s which is twice the speed of PCI-E 1.0. So there is plenty of potential for the newest graphics cards. It is downward compatible, allowing for use of the most of present graphics cards as well.

PCI-Express 3.0 Expansion Slot supports Dual-Slot Graphics Cards

Despite the small housing, the Shuttle XPC BTO-System R6 9700H is capable of running dual-slot (double-height) PCI Express graphics cards. The system provides an additional 6-pin power connector for the demanding graphics cards. Please refer to the support list for detailed support information. Shuttle's Power Supply Calculator helps to determine whether the power supply should be upgraded to 500W or not.

(see <http://global.shuttle.com/support>)



Built-in Intel® HD Graphics Engine

The integrated Intel HD Graphics processor has been moved onto the same die as the CPU. Some of the graphics features depend on the processor type. It supports 3D stereoscopic playback, hardware encoding for H.264 and MPEG-2 video, Blu-ray playback with HDCP, 4K resolution, DirectX 11.1, OpenCL 1.2, OpenGL 4.0, Shader 5.0 and it has up to 20 execution units (similar to shader/stream processors). With all these features, this GPU is comparable to entry level discrete cards.

Supports 4K Ultra HD at 60Hz

The Shuttle XPC BTO-System R6 9700H supports one 4K display running at 3840 x 2160 / 2160p when connected to one of the barebone's DisplayPort video outputs. As the successor to the Full HD standard, Ultra HD delivers a four times higher resolution with a wider colour space and colour depth.

An Intel Core i3 processor or higher is recommended for smooth 4K (2160p) video playback. [4]

Triple Display with HDMI and 2x DisplayPort

The Shuttle XPC BTO-System R6 9700H features three digital video outputs: 1x HDMI 1.4 and 2x DisplayPort 1.2. Triple View technology offers multiple display support on up to three separate monitors at Full HD resolution. This helps improve on productivity by allowing for spreading multiple windows across three monitors while working with them simultaneously. [7]



Supports more displays in combination with a graphics card

The Shuttle XPC BTO-System R6 9700H supports at least five displays in combination with a discrete PCI-Express graphics card, based on the Switchable Graphics feature. Extend your Windows desktop across many monitors, but note it does not support a 2x2 configuration or clone mode with the monitors connected.

Shuttle XPC BTO-System R6 9700H – Optional Accessories



Wireless LAN (Accessory WLN-C)

The Shuttle XPC Accessory WLN-C is a wireless LAN kit consisting of a Mini-PCIe card, two antennas and appropriate cables. Using this, the Shuttle XPC BTO-System R6 9700H can be equipped with a wireless LAN module according to IEEE 802.11b/g/n standards. Data transfer speeds of up to 300 MBit/s can be reached and WPA2 with AES encryption is supported, too.



Serial RS-232 port (Accessory H-RS232)

Adds one serial COM port (RS232) to the back panel which is still commonly used for applications of industrial automation systems, scientific analysis and POS systems.



500 Watt Power Supply (Accessory PC63J)

The optional Shuttle XPC Accessory PC63J is a high-end power supply with a maximum output wattage of 500W. Thanks to its 80 PLUS Silver certification for power-efficient devices, this power supply is also suitable for ENERGY STAR® compliant systems. The power supply features two additional power connectors for graphics cards (6 and 8-pin). An upgrade to the PC63J power supply is required, if the total wattage of the system under full load exceeds 300 Watt. The maximum power consumption depending on the components chosen can be determined using the Shuttle Power-Supply Calculator: <http://global.shuttle.com/support/power>.

Shuttle XPC BTO-System R6 9700H Specifications

| | |
|------------------------------|--|
| <i>Warranty</i> | 24 months Pick-Up-And-ReturnChassis |
| <i>R6-Chassis</i> | <p>Black aluminium chassis</p> <p>Front panel: glossy plastic with horizontal line texture</p> <p>Storage bays: 1 x 5.25" (external), 2 x 3.5" (1x internal, 1x external)</p> <p>With the optional accessory PHD3 two 2.5" drives can be installed into one 3.5" bay.</p> <p>Front doors for I/O ports and storage drives</p> <p>Kensington Security Slot at the back panel (also called K-Slot or Kensington lock) as a part of an anti-theft system</p> <p>Dimensions: 33.2 x 21,6 x 19.8 cm (LWH), 14.2 litre</p> |
| <i>Operation System</i> | Windows 7 Home Premium / Professional 32/64 bit or Windows 8.1 / Pro 32/64 bit |
| <i>Mainboard and Chipset</i> | <p>Shuttle "FH97", Shuttle form factor proprietary design for XPC Barebone SH97R6</p> <p>Dimensions: 270 x 195 mm</p> <p>Chipset: Intel® H97 Chipset (Intel® DH82H97 PCH, code name "Wildcat Point")</p> <p>Platform Controller Hub (PCH) as Single-Chip-Solution</p> <p>Passive chipset cooling with heat sink</p> <p>The Northbridge is integrated into the processor.</p> <p>Solid Capacitors for sensitive areas provide excellent heat resistance for enhanced system durability</p> |
| <i>BIOS</i> | <p>AMI BIOS, SPI Interface, 32 MBit Flash-ROM with SPI interface</p> <p>Supports PnP, ACPI 3.0, Hardware Monitoring</p> <p>Supports Unified Extensible Firmware Interface (UEFI)</p> <p>Supports boot up from external USB flash memory</p> |
| <i>Processor</i> | <p>Socket LGA 1150 desktop processor of the fourth generation:</p> <p>Intel Core i7, Core i5, Core i3, Pentium or Celeron</p> <p>Codename "Haswell", 22nm process technology, up to 8 MB of L3 cache</p> |
| <i>Processor Cooling</i> | <p>Shuttle I.C.E. (Integrated Cooling Engine)</p> <p>Advanced I.C.E. Heatpipe technology with 3 pipes</p> <p>Temperature controlled 92 mm fan</p> <p>SilentX cooling and noise reduction technology with Active Airflow</p> |
| <i>Memory</i> | Up to 32 GB DDR3-1600 SDRAM memory (PC3-12800) |

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| | |
|--|---|
| <p><i>Integrated graphics</i></p> | <p>The features of the integrated Intel HD graphics function depend on the processor type used. Supports OpenCL 1.2, DirectX 11.1, OpenGL4.1 and DX extensions, SH97R6 features three digital video outputs [7]: - HDMI v1.4 (supports 1080p/60 and 2160p/30) - 2x DisplayPort v1.2 (support 1080p/60 and 2160p/60) Supports one display with 4K Ultra HD resolution at 3840 x 2160 [4] Supports three independent FullHD displays with the integrated graphics function Supports more displays in combination with a discrete graphics card [3] Supports Blu-ray (BD) playback with HDCP content protection Supports multi-channel digital audio over the same cable</p> |
| <p><i>HDD/SSD Storage</i></p> | <p>HDD/SSD Storage Up to three mass storage drives are supported: First option: 3.5" hard disk drive or 2.5" SSD Second option: 3.5" hard disk drive or 2.5" SSD Third option: mSATA SSD Mini-PCIe card [2]</p> |
| <p><i>Optical Drive</i></p> | <p>Optional one 5.25" DVD or Blu-ray drive</p> |
| <p><i>Optional PCI-Express Graphics Card</i></p> | <p>The system can be configured with a PCI-Express X16 graphics card from NVIDIA or AMD. Caution: certain graphics cards require an An integrated Intel® HD Graphics function is also available and depends on the type of processor used.</p> |
| <p><i>Expansion Slots</i></p> | <p>1x PCI-Express X16 v3.0 slot for an optional graphics cards Supports dual-slot (double-width) graphics cards (occupies the second PCI-Express slot) 1x PCI-Express X4 v2.0 slot The X1 slot uses an open-ended socket to permit physically longer cards (e.g. X4 or X8) while the speed is limited to X1. 1x Mini-PCIe half-size for an optional WLAN module 1x Mini-PCIe full-size for an optional mSATA SSD card</p> |
| <p><i>7.1-channel Audio</i></p> | <p>7.1 channel High Definition Audio with Realtek ALC892 codec Analog: line-out (7.1-ch), line-in, microphone, AUX input (onboard) Digital Audio via HDMI and DisplayPort outputs</p> |
| <p><i>Gigabit-LAN Controller</i></p> | <p>Realtek RTL 8111G Ethernet network controller PCI Express interface IEEE 802.3u 1000Base-T compliant Supports 10 / 100 / 1.000 MBit/s operation Supports Wake-on-LAN (WOL)</p> |
| <p><i>Front panel connectors and buttons</i></p> | <p>Microphone input Headphone output (line-out) 2x USB 3.0 2x USB 2.0 (1x Quick charge with up to 2A) [5] Power button Power indicator (blue LED) Hard disk drive indicator (yellow LED)</p> |

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| | |
|---|---|
| <p><i>Back panel connectors</i></p> | <p>HDMI v1.4 2x DisplayPort v1.2 [6] 2x USB 3.0 4x USB 2.0 GigaBit LAN (RJ45) External Serial ATA (eSATA 3Gb/s) 7.1-ch Audio line-out (2x rear/front, bass/center, surround/back) Audio Line-in Clear CMOS button</p> |
| <p><i>Power Supply</i></p> | <p>Built-in 300 Watt mini switching power supply (PC61J) AC input voltage: supports 100~240V, 50~60 Hz 80 PLUS® Bronze compliant: the PSU provides at least 82/85/82% of efficiency at 20/50/100% of load. Active PFC circuit (Power Factor Correction)</p> |
| <p><i>Optional Accessories</i></p> | <p>RS232 COM port in the back panel (H-RS232) Wireless LAN 802.11n module with two antennas (WLN-C) 500W power supply, 80 PLUS® Silver (PC63J)</p> |
| <p><i>Environmental Spec</i></p> | <p>Operating temperature range: 0~35°C Relative humidity range: 10~90% (non-condensing)</p> |
| <p><i>Certifications Compliance</i></p> | <p>EMI: FCC, CE, BSMI, C-Tick Safety: ETL, CB, BSMI, TÜV Other: RoHS, ErP 2013 Lot 6, Energy Star 5</p> |
| <p><i>Conformity</i></p> | <p>This device is classed as a technical information equipment (ITE) in class B and is intended for use in the living room or office. The CE-mark approves the conformity by the EU-guidelines:</p> <ul style="list-style-type: none"> - EMV-guideline 89/336/EWG electromagnetic tolerance - LVD-guideline 73/23/EWG use of electric devices within certain voltage-limits |

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Notes:**[1] Overclocking Warning**

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

[2] mini-SATA (mSATA)

Do not confuse with "micro SATA". mSATA is a newer industry standard which converts the electrical SATA interface to the physical "Mini PCI Express" mini card form factor. Applications include mobile devices that require a smaller solid state drive and mainboards that use Intel's Smart Response Technology (SRT).

[3] SH97R6 supports additional displays in combination with a discrete graphics card

The integrated graphics function already supports three independent displays via its digital video outputs. The SH97R6 can even support more displays in combination with a discrete PCI-Express graphics card. This function is based on the Switchable Graphics feature introduced with the 2nd Generation of Intel® Core™ processors. To enable this, please enter the BIOS Setup Utility by pressing the "Delete" key after powering on the PC, then go to the "Advanced" tab and change the "Initiate Graphics Adapter" setting to "Switchable".

[4] 4K Ultra-HD resolution

A 4K-display with Ultra-HD resolution (3840 x 2160) should be connected via DisplayPort, as only this port supports a higher refresh rate of 60Hz. The video playback performance depends on the video format, bit rate and the processor used. Daily office applications usually won't require the system to run under full load, however for smooth 4K (2160p) video playback requirements are different. An [Intel Core i3 processor or higher](#) is recommended here, since the performance of the integrated graphics engine of a Celeron or Pentium processor might not suffice.

[5] Right Front USB port with Quick Charge feature

Quick charge Apple iPhone/iPad devices with up to 2A under Windows XP, Windows 7 and 8 (not under Linux).

[6] How to convert DisplayPort into HDMI/DVI

The DisplayPort outputs can be converted to HDMI or DVI by an additional, passive adapter cable. For example:

DELOCK 82590: 1m, DisplayPort (male, 20p) to HDMI-A (male, 19p)

DELOCK 82435: 5m, DisplayPort (male, 20p) to DVI-D (male, 24p)

The integrated graphics automatically detects the connected display and puts out the appropriate electric signal - either DisplayPort (without an adapter) or HDMI/DVI (with an adapter).

However, a monitor with a DisplayPort connector cannot be connected to the HDMI port with a simple, passive adapter.

[7] Three independent displays simultaneously

The DS87 supports a maximum of two displays with a DVI or HDMI input. A third digital display, if required, must be connected directly to the DisplayPort output (without an adapter).

4th Generation Intel Core Processor Family

LGA1150 socket 22nm "Haswell" processor overview (Date: August 2014)

| Name | Model | Cores | HT | Clock | Turbo | Cache | TDP | Graphics | GPU max. | DDR3 |
|---------|--------|-------|---------|---------|---------|-------|---------|----------|-----------|-----------|
| Core i7 | 4790 | 4 | Yes | 3.6 GHz | 4.0 GHz | 8 MB | 84 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4790S | 4 | Yes | 3.2 GHz | 4.0 GHz | 8 MB | 65 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4790T | 4 | Yes | 2.7 GHz | 3.9 GHz | 8 MB | 45 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4785T | 4 | Yes | 2.2 GHz | 3.2 GHz | 8 MB | 35 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4771 | 4 | Yes | 3.5 GHz | 3.9 GHz | 8 MB | 84 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4770K | 4 | Yes | 3.5 GHz | 3.9 GHz | 8 MB | 84 W | HD 4600 | 1.25 GHz | 1333/1600 |
| | 4770 | 4 | Yes | 3.4 GHz | 3.9 GHz | 8 MB | 84 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4770S | 4 | Yes | 3.1 GHz | 3.9 GHz | 8 MB | 65 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4770T | 4 | Yes | 2.5 GHz | 3.7 GHz | 8 MB | 45 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4770TE | 4 | Yes | 2.3 GHz | 3.3 GHz | 8 MB | 45 W | HD 4600 | 1.00 GHz | 1333/1600 |
| | 4765T | 4 | Yes | 2.0 GHz | 3.0 GHz | 8 MB | 35 W | HD 4600 | 1.20 GHz | 1333/1600 |
| Core i5 | 4690T | 4 | - | 2.5 GHz | 3.5 GHz | 6 MB | 45 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4690S | 4 | - | 3.2 GHz | 3.9 GHz | 6 MB | 65 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4690 | 4 | - | 3.5 GHz | 3.9 GHz | 6 MB | 84 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4670T | 4 | - | 2.3 GHz | 3.3 GHz | 6 MB | 45 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4670S | 4 | - | 3.1 GHz | 3.8 GHz | 6 MB | 65 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4670K | 4 | - | 3.4 GHz | 3.8 GHz | 6 MB | 84 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4670 | 4 | - | 3.4 GHz | 3.8 GHz | 6 MB | 84 W | HD 4600 | 1.20 GHz | 1333/1600 |
| | 4590T | 4 | - | 2.0 GHz | 3.0 GHz | 6 MB | 35 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4590S | 4 | - | 3.0 GHz | 3.7 GHz | 6 MB | 65 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4590 | 4 | - | 3.3 GHz | 3.7 GHz | 6 MB | 84 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4570TE | 2 | Yes | 2.7 GHz | 3.3 GHz | 4 MB | 35 W | HD 4600 | 1.00 GHz | 1333/1600 |
| | 4570T | 2 | Yes | 2.9 GHz | 3.6 GHz | 4 MB | 35 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4570S | 4 | - | 2.9 GHz | 3.6 GHz | 6 MB | 65 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4570 | 4 | - | 3.2 GHz | 3.6 GHz | 6 MB | 84 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4460T | 4 | - | 1.9 GHz | 2.7 GHz | 6 MB | 35 W | HD 4600 | 1.10 GHz | 1333/1600 |
| | 4460S | 4 | - | 2.9 GHz | 3.4 GHz | 6 MB | 65 W | HD 4600 | 1.10 GHz | 1333/1600 |
| | 4460 | 4 | - | 3.2 GHz | 3.4 GHz | 6 MB | 84 W | HD 4600 | 1.10 GHz | 1333/1600 |
| | 4440S | 4 | - | 2.8 GHz | 3.3 GHz | 6 MB | 65 W | HD 4600 | 1.10 GHz | 1333/1600 |
| | 4440 | 4 | - | 3.1 GHz | 3.3 GHz | 6 MB | 84 W | HD 4600 | 1.10 GHz | 1333/1600 |
| 4430S | 4 | - | 2.7 GHz | 3.2 GHz | 4 MB | 65 W | HD 4600 | 1.10 GHz | 1333/1600 | |
| 4430 | 4 | - | 3.0 GHz | 3.2 GHz | 6 MB | 84 W | HD 4600 | 1.10 GHz | 1333/1600 | |
| Core i3 | 4370 | 2 | Yes | 3.8 GHz | - | 4 MB | 54 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4360T | 2 | Yes | 3.2 GHz | - | 4 MB | 35 W | HD 4400 | 1.15 GHz | 1333/1600 |
| | 4360 | 2 | Yes | 3.7 GHz | - | 4 MB | 54 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4350T | 2 | Yes | 3.1 GHz | - | 4 MB | 35 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4350 | 2 | Yes | 3.6 GHz | - | 4 MB | 54 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4340 | 2 | Yes | 3.6 GHz | - | 4 MB | 54 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4330TE | 2 | Yes | 2.4 GHz | - | 4 MB | 35 W | HD 4600 | 1.00 GHz | 1333/1600 |
| | 4330T | 2 | Yes | 3.0 GHz | - | 4 MB | 35 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4330 | 2 | Yes | 3.5 GHz | - | 4 MB | 54 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4160T | 2 | Yes | 3.1 GHz | - | 3 MB | 35 W | HD 4400 | 1.15 GHz | 1333/1600 |
| | 4160 | 2 | Yes | 3.6 GHz | - | 3 MB | 54 W | HD 4600 | 1.15 GHz | 1333/1600 |
| | 4130T | 2 | Yes | 2.9 GHz | - | 3 MB | 35 W | HD 4400 | 1.15 GHz | 1333/1600 |
| 4130 | 2 | Yes | 3.4 GHz | - | 3 MB | 54 W | HD 4400 | 1.15 GHz | 1333/1600 | |

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| Name | Modell | Kerne | HT | Takt | Turbo | Cache | TDP | Grafik | GPU max. | DDR3 |
|---------|----------------|-------|----|---------|-------|-------|------|--------|----------|-----------|
| Pentium | G3460 | 2 | - | 3.5 GHz | - | 3 MB | 53 W | HD | 1.10 GHz | 1333/1666 |
| | G3450T | 2 | - | 2.9 GHz | - | 3 MB | 35 W | HD | 1.10 GHz | 1333/1666 |
| | G3450 | 2 | - | 3.4 GHz | - | 3 MB | 53 W | HD | 1.10 GHz | 1333/1666 |
| | G3440T | 2 | - | 2.8 GHz | - | 3 MB | 35 W | HD | 1.10 GHz | 1333/1666 |
| | G3440 | 2 | - | 3.3 GHz | - | 3 MB | 53 W | HD | 1.10 GHz | 1333/1666 |
| | G3430 | 2 | - | 3.3 GHz | - | 3 MB | 53 W | HD | 1.10 GHz | 1333/1666 |
| | G3420T | 2 | - | 2.7 GHz | - | 3 MB | 35 W | HD | 1.10 GHz | 1333/1666 |
| | G3420 | 2 | - | 3.2 GHz | - | 3 MB | 53 W | HD | 1.15 GHz | 1333/1666 |
| | G3320TE | 2 | - | 2.3 GHz | - | 3 MB | 35 W | HD | 1.00 GHz | 1333/1666 |
| | G3250T | 2 | - | 2.8 GHz | - | 3 MB | 35 W | HD | 1.10 GHz | 1333 |
| | G3250 | 2 | - | 3.2 GHz | - | 3 MB | 53 W | HD | 1.10 GHz | 1333 |
| | G3240T | 2 | - | 2.7 GHz | - | 3 MB | 35 W | HD | 1.10 GHz | 1333 |
| | G3240 | 2 | - | 3.1 GHz | - | 3 MB | 53 W | HD | 1.10 GHz | 1333 |
| | G3220T | 2 | - | 2.6 GHz | - | 3 MB | 35 W | HD | 1.10 GHz | 1333 |
| | G3220 | 2 | - | 3.0 GHz | - | 3 MB | 53 W | HD | 1.10 GHz | 1333 |
| Celeron | G1850 | 2 | | 2.9 GHz | - | 2 MB | 53 W | HD | 1.05 GHz | 1333 |
| | G1840T | 2 | | 2.5 GHz | - | 2 MB | 35 W | HD | 1.05 GHz | 1333 |
| | G1840 | 2 | | 2.8 GHz | - | 2 MB | 53 W | HD | 1.05 GHz | 1333 |
| | G1830 | 2 | - | 2.8 GHz | - | 2 MB | 54 W | HD | 1.05 GHz | 1333 |
| | G1820TE | 2 | - | 2.2 GHz | - | 2 MB | 35 W | HD | 1.00 GHz | 1333 |
| | G1820T | 2 | - | 2.4 GHz | - | 2 MB | 35 W | HD | 1.05 GHz | 1333 |
| | G1820 | 2 | - | 2.7 GHz | - | 2 MB | 54 W | HD | 1.05 GHz | 1333 |

K = unlocked, **S** = Performance optimized lifestyle, **T** = Power optimized lifestyle, **HT** = Hyper Threading (SMT).
Please refer to the support list for detailed processor support information at global.shuttle.com.