

**Powerful 3-litre PC with a PCIe X16 slot**

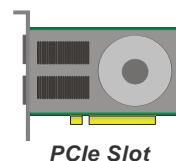
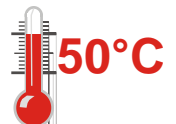
The Shuttle XPC slim Barebone XH110G is Shuttle's first 3-litre PC to even house one single-slot expansion card. Together with an LGA 1151 Intel Core desktop processor of the Kaby Lake range, this platform is perfectly suited for many professional applications where performance, flexibility and a compact form factor matter. If a multi-port video card or video grabber card is installed, the XH110G is suitable for diverse applications such as video wall presentations, graphics workstations, media capturing, surveillance, POS, POI and many network and industrial tasks. Even mid-range gaming is possible.

**XPC slim Barebone  
XH110G**

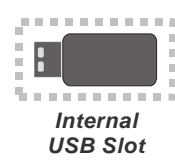


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Feature Highlights	
<b>Slim-Design</b>	<ul style="list-style-type: none"> <li>• Slim steel chassis, black</li> <li>• Dimensions: 25 x 20 x 7.85 cm (L/W/H)</li> <li>• Max. operating temperature: 0~50 °C</li> <li>• Includes VESA mount</li> </ul>
<b>PCIe-Slot</b>	<ul style="list-style-type: none"> <li>• 1x PCI-Express X16 v3.0 single-width slot</li> <li>• Max. 208.5 x 120 x 30 mm, max. 75 W</li> </ul>
<b>Processor</b>	<ul style="list-style-type: none"> <li>• Supports LGA 1151 Skylake or Kaby Lake processors up to a max. TDP of 65 W</li> <li>• Supports Core i7 / i5 / i3, Pentium, Celeron</li> <li>• Includes heatpipe cooling system</li> </ul>
<b>Operating System</b>	<ul style="list-style-type: none"> <li>• This system comes without operating system.</li> <li>• Supports Windows 7 / 8.1 / 10, Linux (64-bit)</li> <li>• Win. 7/8.1 not supported w/ Kaby Lake CPU</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>• Intel H110 Chipset</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• 2x 260-pin SO-DIMM slot</li> <li>• Supports DDR4-2133/2400, max. 2x 16 GB</li> </ul>
<b>Storage Bay</b>	<ul style="list-style-type: none"> <li>• One 2.5" bay with SATA interface supports one 2.5" hard disk or SSD (max. 9.5 mm)</li> </ul>
<b>Connectors</b>	<ul style="list-style-type: none"> <li>• HDMI 1.4 and VGA/D-Sub graphics ports</li> <li>• 2x USB 3.0, 6x USB 2.0, 1x Gigabit LAN</li> <li>• Microphone and headphones ports</li> <li>• Internal Type-A USB slot</li> </ul>
<b>Mini-Slots</b>	<ul style="list-style-type: none"> <li>• M.2 2280 BM Slot (supports SATA/PCIe SSDs)</li> <li>• M.2 2230 AE Slot (supports WLAN-cards)</li> </ul>
<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>• Vertical stand (PS01)</li> <li>• WLAN kit (WLN-M)</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• 180 W / 19 V external power adapter</li> </ul>



PCIe Slot



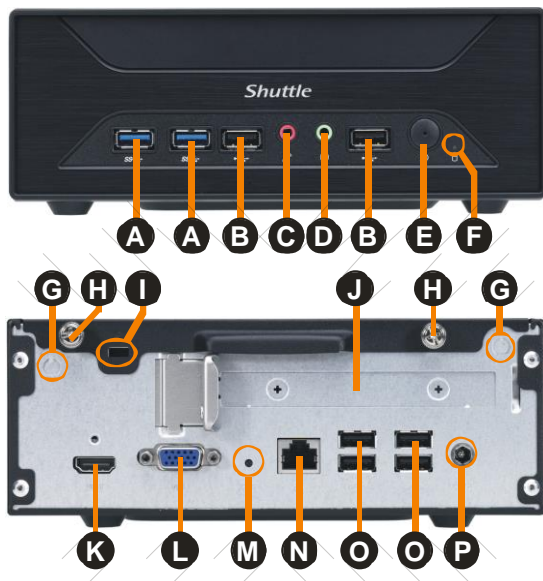
Internal USB Slot



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### Connectors and Slots



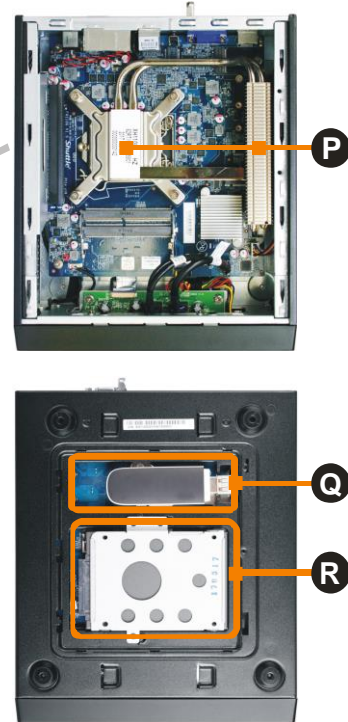
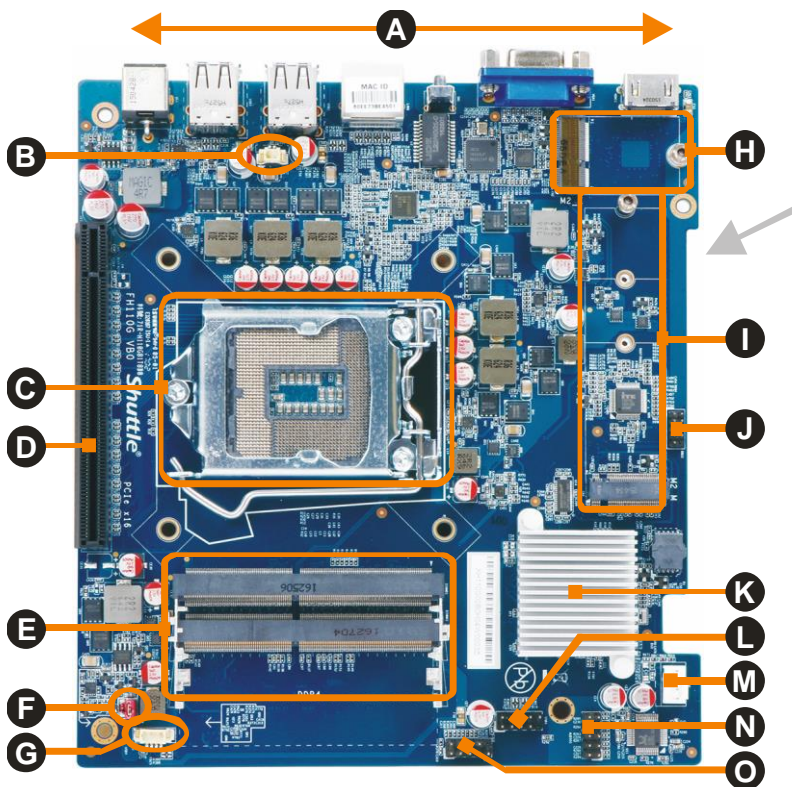
**Front Panel**

- A 2x USB 3.0 port
- B 2x USB 2.0 port
- C Microphone input
- D Headphones output
- E Power on button with LED
- F LED indicator for hard disk activity

**Back Panel**

- G 2x perforation for optional WLAN antenna
- H 2x thumbscrew
- I Hole for Kensington Lock
- J PCI Express X16 expansion slot
- K HDMI Video/Audio output
- L VGA/D-Sub Video output
- M Clear CMOS button
- N Gigabit network (RJ45)
- O 4x USB 2.0
- P DC-in Connector for power adapter

**Mainboard**

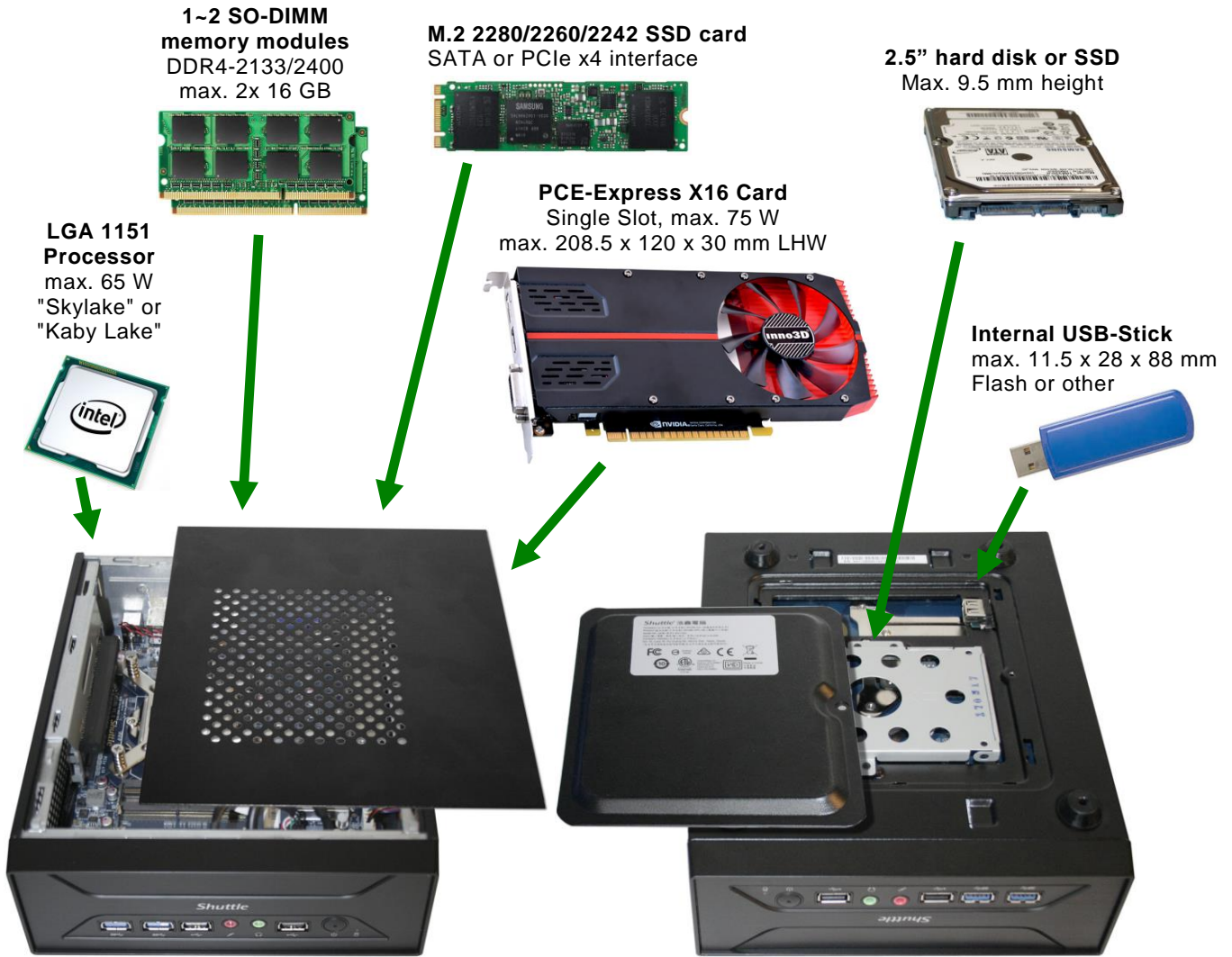


The 2.5" storage drive and USB stick are not included in the delivery of the XH110G.

- |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>A Back panel connectors</li> <li>B Connector for the CMOS Battery</li> <li>C Processor socket (LGA 1151)</li> <li>D PCI Express X16 Expansion Slot</li> <li>E 2x SO-DIMM slot for DDR4 RAM</li> <li>F Always-On-Jumper</li> <li>G USB 2.0 header</li> <li>H M.2 2230 AE slot for an optional WLAN card</li> <li>I M.2 2280 M slot for an SSD card</li> </ul> | <ul style="list-style-type: none"> <li>J Debug Header</li> <li>K Intel H110 Chipset</li> <li>L Front connector for Audio/USB</li> <li>M Connector for the CPU cooling fan</li> <li>N Front connector for Audio/USB</li> <li>O Front connector for Power-Button/LEDs</li> <li>P Installed heatpipe cooling system</li> <li>Q Internal USB 2.0 slot</li> <li>R Storage bay for 2.5" drive with SATA port</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Appropriate Components

The Shuttle XPC slim Barebone XH110G consists of a stylish case with pre-installed mainboard, cooling system and external power adapter. Despite its small form factor, it offers outstanding connectivity, functionality and performance. For a complete Mini-PC system, a few components still need to be added:



### Optional Accessories

**Vertical Stand: PS01**



**WLAN Kit: WLN-M**



## Examples for Applications with Expansion Card

Despite the small dimensions of the chassis, the Shuttle XPC slim Barebone XH110G sports a full PCI-Express X16 slot for a single-slot expansion card measuring up to 208.5 mm in length, 120 mm in height and 30 mm in width. The barebone also supports powerful components such as an Intel Core i7 processor or 32 GB RAM. This allows it to be used for numerous applications that required a much bigger PC in the past.



Image: Shuttle XPC slim Barebone XH110G with built-in AMD FirePro W600 graphics card

Expansion Card	Possible Applications
<b>Gaming Graphics Card</b> e.g. INNO3D GeForce GTX 1050 Ti Compact Single Slot, 4096 MB GDDR5	<ul style="list-style-type: none"> <li>• Gaming PC</li> <li>• 3D Workstation</li> </ul>
<b>Multi-port Graphics Card</b> e.g. AMD FirePro W600 or Matrox C680 with 6x Mini-DisplayPort	<ul style="list-style-type: none"> <li>• Visualisation for Control Rooms</li> <li>• Surveillance and Security</li> <li>• Digital Signage with Video Wall</li> <li>• Information Display (POI)</li> </ul>
<b>CAD Graphics Card</b> e.g. NVIDIA Quadro P2000	<ul style="list-style-type: none"> <li>• CAD Applications</li> <li>• Content Creation</li> <li>• 3D Workstation</li> </ul>
<b>Video Capture Card</b> e.g. with 4x SDI/BNC	<ul style="list-style-type: none"> <li>• Multi-channel Capture System</li> </ul>
<b>Special Network Card</b> e.g. Multiport or 10 Gbps	<ul style="list-style-type: none"> <li>• Proxy and Firewall Applications</li> <li>• Intranet Server</li> </ul>
<b>Fieldbus Card</b> e.g. EtherCAT, Profibus, CAN, Modbus, etc.	<ul style="list-style-type: none"> <li>• Industry Automation</li> <li>• Conveyor Technology</li> <li>• Building Automation</li> </ul>
<b>Multi I/O Card</b> e.g. 8x COM-Port, DA/AD converter, general-purpose input/output (GPIO)	<ul style="list-style-type: none"> <li>• Point of Sales (POS)</li> <li>• Vending Machine</li> <li>• Automation / Control System</li> </ul>
<b>Receiver Card</b> e.g. for SAT, DVB-T2, Cable	<ul style="list-style-type: none"> <li>• Home Entertainment</li> </ul>

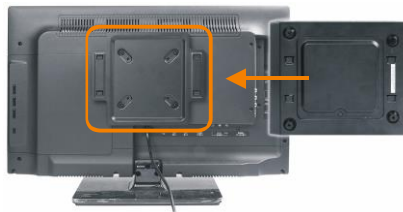
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## More Product Features



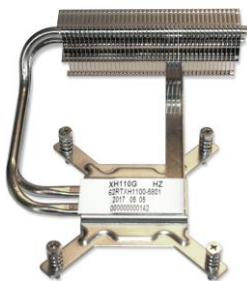
### The slim chassis - a clean and modern look

Shuttle has always placed great emphasis on the interior and exterior aesthetics of their Mini-PCs with the belief that a good blend of style and form factor allows the Mini-PC to be attractive, versatile and work well in almost any environment. And the XH110G was designed just like that and shines in a clean and modern appearance. The front panel connectors are easy to access in daily use and this tiny tot barely stands at 7.85 cm in height.



### VESA mount included

With the supplied VESA mount you can easily attach the XH110G to the backside of an appropriate display, to a VESA arm or just to the wall. It is compatible with 75x75 mm and 100x100 mm VESA standards.



### Low noise thanks to heatpipe cooling system

An active dual-fan heatpipe cooling system ensures whisper-quiet operation and system stability. A heatpipe is a hollow tube containing a liquid to transfer heat. As the liquid evaporates, it carries heat to the cool end, where it condenses and then runs back to the hot end. Heatpipes thus have a much higher effective thermal conductivity than solid materials. Please keep the vent holes clear.



### Extended temperature range and reliability

The Shuttle XPC slim Barebone XH110G is outstandingly robust thanks to its alu chassis. With an operating temperature range of 0-50 °C it is suitable for use in rough environments. Built around entirely all solid capacitors, the XH110G is guaranteed to deliver maximum stability, reliability and longer system life for long-term applications like digital signage.

**Notice:** For high ambient temperatures over 40 °C we recommend use of Solid State Disks (SSDs) instead of Hard Disk Drives (HDDs).



### M.2-2280-Slot for SSD cards

The M.2-2280 BM slot supports M.2 SSD storage cards with SATA or with the modern PCIe interface.

Type 2280 means, it supports the usual M.2 cards with a width of 22 mm and a length of 80 mm, but also 2242 and 2260 standard cards are supported.



### Power-on-after-power-fail

The BIOS setup provides a "power-on-after-power-fail" function that can be found under "Power Management Configuration". As the name indicates, this function determines the PC's behaviour after power failure: (1) unconditional power on, (2) restore former status or (3) keep system turned off. As a matter of the nature of this function, it may fail after short power failures. This is why the Shuttle XPC slim Barebone XH110G also comes with a hardware-based solution. By removing the appropriate Jumper (see image) the system will start unconditionally once power is applied.

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## Shuttle XPC slim Barebone XH110G - Specifications

<p><i>Chassis</i></p>	<p>Slim X-type chassis, colour: black                  Dimensions: 250 x 200 x 78.5 mm (LWH)                  Weight: 1.9 kg net, 3.0 kg gross                  Open front – no concealed front panel connectors                  Hole for Kensington Lock at the back panel</p>
<p><i>Operation Position</i></p>	<p>(1) horizontal on its feed                  (2) vertical with the optional stand (Accessory PS01)                  (3) vertical with the supplied VESA mount bracket</p>
<p><i>Operation System</i></p>	<p>This system comes without operating system.                  It is compatible with Windows 10 / 8.1 / 7 and Linux (64-bit).                  Important note: Windows 7 and 8.1 is only supported in combination with the 6th generation Intel Core processors "Skylake".</p>
<p><i>Mainboard, Chipset and BIOS</i></p>	<p>Mainboard FH110G, form factor 17 x 19 cm                  Chipset: Intel® H110 Chipset                  (Intel® GL82H110 PCH, Codename "Sunrise Point")                  AMI BIOS in 8 MB EEPROM with SPI interface                  All capacitors are high quality solid capacitors                  Supports hardware monitoring and watch dog functionality                  Supports Unified Extensible Firmware Interface (UEFI)                  Supports power-on-after-power-fail [1]</p>
<p><i>Power Adapter</i></p>	<p>External 180 W power adapter (fanless)                  Input: 100~240 V AC, 50~60 Hz, max. 2.5 A                  Output: 19.5 V DC, max. 9.23 A, max. 180 W output wattage                  AC Connector with protective-earth contacts, cable length: 1.7 m                  DC Connector: 5.5 / 2.5mm (outer/inner diameter)                  Dimensions: ca. 167 x 82 x 25.5 mm = 350 ml</p>
<p><i>Processor Support</i></p>	<p>Socket LGA 1151 (H4) supports                  Intel Core i7 / i5 / i3, Pentium and Celeron processors                  - 6th generation, code name "Skylake" (6000 series)                  - 7th generation, code name "Kaby Lake" (7000 series)                  Maximum supported processor power consumption (TDP) = 65 W                  14 nm process technology, up to 8 MB of L3 cache                  Not compatible with Intel Xeon E3 V5 processors for socket LGA1151 and processors with the older Socket LGA 1150.                  Does not support the unlock function of Intel K-Series processors.                  Please refer to the support list for detailed processor support information at <a href="http://global.shuttle.com">global.shuttle.com</a>.</p>
<p><i>Heatpipe Cooling</i></p>	<p>Processor cooling with heatpipe technology and two fans (60 mm)</p>

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<p><i>Memory Support</i></p>	<p>2x 260-pin SO-DIMM slot                  Supports DDR4-2133/2400 (PC4-17000/19200) SDRAM at 1.2 V                  Supports Dual Channel mode                  Supports a maximum of 16 GB per DIMM,                  Maximum total capacity: 32 GB                  Supports two unbuffered DIMM modules (no ECC or registered)</p>
<p><i>PCIe Expansion Slot</i></p>	<p>1x PCI-Express X16 v3.0 slot with installed 90° Riser Card                  The used expansion card must meet the following conditions:                  - Maximum dimensions: 208.5 mm x 120 mm x 30 mm (Single Slot)                  - Maximum power consumption: 75 W</p>
<p><i>Integrated Graphics</i></p>	<p>The features of the integrated Intel HD graphics function depend on the processor type used.                  Supports DirectX 12, OGL 5.x, OCL 2.x                  The PC features the following video outputs:                  (1) HDMI 1.4 (supports 1080p/60 and 2160p/30)                  (2) VGA / 15-pin D-Sub (supports analog video)                  Supports two independent displays simultaneously                  HDMI supports 7.1 multi-channel digital audio over the same cable                  Maximum shared memory of 1760 MB</p>
<p><i>Audio</i></p>	<p>Audio Realtek® ALC 662 High-Definition Audio                  Two analog audio connectors (3.5 mm) at the front panel:                  (1) Microphone input                  (2) Headphones output (Line out)                  Digital 7.1 audio output: is possible via the HDMI port</p>
<p><i>Gigabit LAN Controller</i></p>	<p>Intel i211 network controller                  Supports 10 / 100 / 1.000 MBit/s operation                  Supports WAKE ON LAN (WOL)                  Supports network boot by Preboot eXecution Environment (PXE)</p>
<p><i>2.5" Storage Bay</i></p>	<p>This system features one 2.5" drive bay which is accessible from the bottom of the housing.                  It supports one 2.5" / 6.35 cm hard disk or SSD with max. 9.5 mm height.                  The system includes a pre-installed data/power cable [3].                  The connector supports SATA III with max. 6 Gbps.</p>
<p><i>M.2-2280 Slot</i></p>	<p>The M.2 2280 M slot provides the following interfaces:                  - PCI-Express v2.0 X4                  - SATA v3.0 (6 Gbps)                  It supports M.2 cards with a width of 22 mm and a length of 42, 60 or 80 mm (type 2242, 2260, 2280) and M.2 SSDs with SATA or PCIe interface.</p>

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<p><i>M.2-2230 Slot</i></p>	<p>The M.2 2230 AE slot has the following interfaces:                  - PCI-Express v2.0 X1                  - USB 2.0                  It supports M.2 cards with a width of 22 mm and a length of 30 mm. This slot is intended for Wireless LAN (Wifi), Bluetooth, GSM/UMTS cards and other. A SATA interface for SSD cards is not available here.</p>
<p><i>Internal USB Port</i></p>	<p>This system features one internal USB port which is located behind the bottom cover of this PC.                  Connector: USB 2.0 Type A                  Maximum permitted size of the USB stick: 11.5 mm x 28 mm x 88 mm</p>
<p><i>Front Panel Connectors</i></p>	<p>1x Microphone input (3.5 mm)                  1x Headphones output (3.5 mm, line out)                  2x USB 3.0                  2x USB 2.0                  1x Power button with Power LED (blue)                  1x HDD LED (yellow)</p>
<p><i>Back Panel Connectors</i></p>	<p>1x HDMI 1.4 digital audio/video output, supports screw lock                  1x VGA / D-Sub analog video output                  4x USB 2.0                  1x GigaBit LAN (RJ45)                  1x Clear CMOS Button                  2x Perforation for Wireless LAN antennas                  1x Hole for Kensington Lock</p>
<p><i>Other Onboard Connectors</i></p>	<p>Power-on-after-power-fail (hardware solution by jumper) [1]                  4x front connector for power button, LEDs, USBs, audio ports                  4-pin fan connectors (occupied by the CPU cooling system)                  4-pin USB 2.0 connector (occupied by the internal USB port)                  2-pin connector for the CMOS/RTC battery (occupied)                  2x 5-pin debug port</p>
<p><i>Supplied Accessories</i></p>	<p>Multi-language installation guide (EN, DE, FR, ES, JP, KR, SC, TC)                  Driver DVD                  Bracket for one 2.5" drive with screws                  External power adapter with 1.7 m power cord                  VESA mount bracket (metal) supports 75x75 and 100x100 mm standard with four screws M4x10                  Protector cap for the CPU socket (do not use if heatpipe or fan is mounted)                  CPU heatpipe cooling system with heatsink compound</p>
<p><i>Optional Accessories</i></p>	<p>(1) Vertical stand (PS01)                  (2) WLAN module (WLN-M) [4]</p>
<p><i>Environmental Specifications</i></p>	<p>Operating temperature range: 0~50 °C [2]                  Relative humidity range: 10~90 % (non-condensing)</p>

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**Conformity  
and  
Certifications**

EMI: FCC, CE, BSMI, C-Tick

Safety: ETL, CB, BSMI

Other: RoHS, Energy Star 5.0, ErP

This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU directives:

(1) 2004/108/EC relating to electromagnetic compatibility (EMC),

(2) 2006/95/EC relating to Electrical Equipment designed for use within certain voltage limits (LVD),

(3) 2009/125/EC relating to ecodesign requirements for energy-related products (ErP)

**Notes:****[1] Power-on-after-power-fail**

The BIOS setup provides a "power-on-after-power-fail" function that can be found under "Power Management Configuration". As the name indicates, this function determines the PC's behaviour after power failure: (1) unconditional power on, (2) restore former status or (3) keep system turned off. As a matter of the nature of this function, it may fail after short power failures. This is why this PC also comes with a hardware-based solution. By removing the appropriate jumper J1, the system will start unconditionally once power is supplied.

**[2] High ambient temperature**

For high ambient temperature over 40 °C we strongly recommend to use SSDs instead of hard disk drives.

**[3] Power connector for SATA drives**

The supplied power cable for a SATA drive provides a voltage of 5 V. In very rare cases a 2.5" hard disk also requires a 12 V line, which is not supported.

**[4] Optional Wireless LAN module**

Shuttle offers the optional accessory "WLN-M" which adds WLAN IEEE 802.11ac and Bluetooth 4.0 functionality. This kit consists of an M.2 expansion card and two external antennas with appropriate cables.

## 6<sup>th</sup> Generation Intel Core Desktop Processor Family

Socket LGA 1151 14 nm "Skylake-S" processor overview (Date: July 2017)

Processors with TDP > 65 W are **not** supported (marked in red)

Name	Model	Cores/ Threads	CPU Clock	Turbo Clock	Cache	TDP	Graphics Engine	Graphics Clock
Core i7	6700K	4 / 8	4.0 GHz	4.2 GHz	8 MB	91 W	HD 530	350~1150 MHz
	6700	4 / 8	3.4 GHz	4.0 GHz	8 MB	65 W	HD 530	350~1150 MHz
	6700T	4 / 8	2.8 GHz	3.6 GHz	8 MB	35 W	HD 530	350~1100 MHz
Core i5	6600K	4 / 4	3.5 GHz	3.9 GHz	6 MB	91 W	HD 530	350~1150 MHz
	6600	4 / 4	3.3 GHz	3.9 GHz	6 MB	65 W	HD 530	350~1150 MHz
	6600T	4 / 4	2.7 GHz	3.5 GHz	6 MB	35 W	HD 530	350~1100 MHz
	6500	4 / 4	3.2 GHz	3.6 GHz	6 MB	65 W	HD 530	350~1150 MHz
	6500T	4 / 4	2.5 GHz	3.1 GHz	6 MB	35 W	HD 530	350~1100 MHz
	6400	4 / 4	2.7 GHz	3.3 GHz	6 MB	65 W	HD 530	350~1150 MHz
Core i3	6400T	4 / 4	2.2 GHz	2.8 GHz	6 MB	35 W	HD 530	350~1100 MHz
	6320	2 / 4	3.9 GHz	-	4 MB	51 W	HD 530	350~1150 MHz
	6300	2 / 4	3.8 GHz	-	4 MB	51 W	HD 530	350~1150 MHz
	6300T	2 / 4	3.3 GHz	-	4 MB	35 W	HD 530	350~1100 MHz
	6100	2 / 4	3.7 GHz	-	4 MB	51 W	HD 530	350~1150 MHz
Pentium	6100T	2 / 4	3.2 GHz	-	4 MB	35 W	HD 530	350~1100 MHz
	G4520	2 / 2	3.6 GHz	-	3 MB	51 W	HD 530	350~1050 MHz
	G4500	2 / 2	3.5 GHz	-	3 MB	51 W	HD 530	350~1050 MHz
	G4500T	2 / 2	3.0 GHz	-	3 MB	35 W	HD 530	350~950 MHz
	G4400	2 / 2	3.3 GHz	-	3 MB	54 W	HD 510	350~1050 MHz
Celeron	G4400T	2 / 2	2.9 GHz	-	3 MB	35 W	HD 510	350~950 MHz
	G3920	2 / 2	2.9 GHz	-	2 MB	47 W	HD 510	350~950 MHz
	G3900	2 / 2	2.8 GHz	-	2 MB	47 W	HD 510	350~950 MHz
	G3900T	2 / 2	2.6 GHz	-	2 MB	35 W	HD 510	350~950 MHz

**K** = unlocked, **S** = Performance optimized lifestyle, **TDP** = Thermal Power Design – max. power consumption

Note: The Shuttle XPC slim Barebone XH110G does not support the unlock-function of Intel K-Series processors.

Please refer to the support list for detailed processor support information at [global.shuttle.com](http://global.shuttle.com).

## 7<sup>th</sup> Generation Intel Core Desktop Processor Family

Socket LGA 1151 14 nm “Kaby Lake-S” processor overview (Date: July 2017)

Processors with a TDP > 65 W are **not** supported (marked in red)

Name	Model	Cores/ Threads	CPU Clock	Turbo Clock	Cache	TDP	Graphics Engine	Graphics Clock
Core i7	7700K	4 / 8	4.2 GHz	4.5 GHz	8 MB	91 W	HD 630	350~1150 MHz
	7700	4 / 8	3.6 GHz	4.2 GHz	8 MB	65 W	HD 630	350~1150 MHz
	7700T	4 / 8	2.9 GHz	3.8 GHz	8 MB	35 W	HD 630	350~1150 MHz
Core i5	7600K	4 / 4	3.8 GHz	4.2 GHz	6 MB	91 W	HD 630	350~1150 MHz
	7600	4 / 4	3.5 GHz	4.1 GHz	6 MB	65 W	HD 630	350~1150 MHz
	7600T	4 / 4	2.8 GHz	3.7 GHz	6 MB	35 W	HD 630	350~1100 MHz
	7500	4 / 4	3.4 GHz	3.8 GHz	6 MB	65 W	HD 630	350~1100 MHz
	7500T	4 / 4	2.7 GHz	3.3 GHz	6 MB	35 W	HD 630	350~1100 MHz
	7400	4 / 4	3.0 GHz	3.5 GHz	6 MB	65 W	HD 630	350~1000 MHz
	7400T	4 / 4	2.4 GHz	3.0 GHz	6 MB	35 W	HD 630	350~1000 MHz
Core i3	7350K	2 / 4	4.2 GHz	-	4 MB	60 W	HD 630	350~1050 MHz
	7320	2 / 4	4.1 GHz	-	4 MB	51 W	HD 630	350~1050 MHz
	7300	2 / 4	4.0 GHz	-	4 MB	51 W	HD 630	350~1050 MHz
	7300T	2 / 4	3.5 GHz	-	4 MB	35 W	HD 630	350~1100 MHz
	7101E	2 / 4	3.9 GHz	-	3 MB	54 W	HD 610	350~1100 MHz
	7101TE	2 / 4	3.4 GHz	-	3 MB	35 W	HD 610	350~1100 MHz
	7100	2 / 4	3.9 GHz	-	3 MB	51 W	HD 630	350~1100 MHz
	7100T	2 / 4	3.4 GHz	-	3 MB	35 W	HD 630	350~1100 MHz
Pentium	G4620	2 / 4	3.7 GHz	-	3 MB	51 W	HD 630	350~1100 MHz
	G4600	2 / 4	3.6 GHz	-	3 MB	51 W	HD 630	350~1100 MHz
	G4600T	2 / 4	3.0 GHz	-	3 MB	35 W	HD 630	350~1050 MHz
	G4560	2 / 4	3.5 GHz	-	3 MB	54 W	HD 610	350~1050 MHz
	G4560T	2 / 4	2.9 GHz	-	3 MB	35 W	HD 610	350~1050 MHz
Celeron	G3950	2 / 2	3.0 GHz	-	2 MB	51 W	HD 610	350~1050 MHz
	G3930	2 / 2	2.9 GHz	-	2 MB	51 W	HD 610	350~1050 MHz
	G3930T	2 / 2	2.7 GHz	-	2 MB	35 W	HD 610	350~1000 MHz

**K** = unlocked, **T** = Power optimized lifestyle, **TDP** = Thermal Power Design – max. power consumption

Note: The Shuttle XPC slim Barebone XH110G does not support the unlock-function of Intel K-Series processors.

Please refer to the support list for detailed processor support information at [global.shuttle.com](http://global.shuttle.com).