

**Suitable for continuous operation – fanless 1-litre PC**

**Barebone XS35V3L**  
Slim PC

The XS35V3L is a thrifty barebone suitable for building of particularly slim nettops with drives and operating system, as well as for purely network-based applications in client/server environments. The pre-installed Intel Atom D2550 processor clocked at 2x 1.86 GHz offers sufficient computing power for a wide range of possible applications. The XS35V3L comes completely fanless which helps cut down on operating noise and expensive servicing as there are no moving parts in the machine. Equipped with the relevant hard drives or flash memory/SSDs, the XS35V3L is suitable for continuous 24/7 operation.



**Feature Highlights**

<b>Chassis</b>	<ul style="list-style-type: none"> <li>• Slim 1.5 litre chassis</li> <li>• Dimensions: 25.2 x 16.2 x 3.85 cm</li> <li>• Hole for the Kensington Lock</li> <li>• Optional: VESA75/100 mounting kit PV01</li> </ul>
<b>Operating system</b>	<ul style="list-style-type: none"> <li>• Without operating system</li> <li>• Compatible with Windows 7 (32 bit)</li> </ul>
<b>CPU</b>	<ul style="list-style-type: none"> <li>• Intel Atom D2550 Dual Core (1.86 GHz)</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>• Intel NM10 Express Chipset</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>• Integrated Intel GMA3650 Graphics</li> <li>• Shared Memory: max. 384MB DVMT</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• 2x SO-DIMM socket (204 pins)</li> <li>• Supports max. 4GB DDR3-1066</li> <li>• Supports DDR3-1333/1600 at 1066MHz</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Supports one optical slimline drive</li> <li>• Supports one 2.5" SATA hard disk or SSD</li> <li>• With SD card reader</li> </ul>
<b>Connectors and WLAN</b>	<ul style="list-style-type: none"> <li>• HDMI v1.3</li> <li>• D-Sub VGA</li> <li>• 5x USB 2.0 (1x front, 4x rear)</li> <li>• 2x Audio (mic, head phone)</li> <li>• Gigabit-LAN</li> <li>• WLAN 802.11 b/g/n</li> </ul>
<b>Power supply</b>	<ul style="list-style-type: none"> <li>• External 40W fanless power supply</li> </ul>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• Basic and Home-Media</li> </ul>

Images are only for illustration purposes.  
The optical drive is not included.



Shuttle Order Number: PEB-XS35U3L01



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## Shuttle Barebone XS35V3L - Product Features



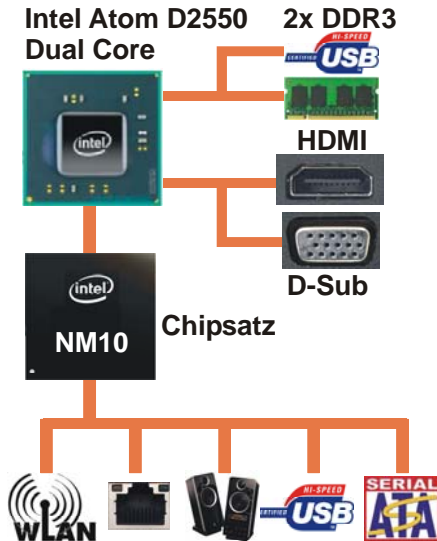
### Slim and stylish

Designed as a space-saver, this sleek 1.5 litre nettop PC only measures 3.8cm in width. It maximizes space whether it is placed upright using its stylish stand or affixed to the back of a display with the optional VESA mounting kit (PV01). Due to its small size and flexible design, this practical nettop offers exceptional functionality and is well-suited for home users, small offices, reception areas, classrooms, libraries, showrooms, call centres, public institutions and more.



### Fanless and quiet

The Shuttle Barebone XS35V3L comes totally fanless making it perfect to be used in noise-sensitive environments such as living rooms, hospitals, libraries etc. As an additional benefit, fanless cases rarely gather dust on the inside and stay cleaner than others. So it's not only quiet and low in energy use, but also dust-free and virtually maintenance free.



### The Atom processor integrates the graphics controller

Shuttle XS35V3L is equipped with Intel's Atom D2550 processor (1.86 GHz, codenamed Cedarview). It comes with both the memory controller and graphics core on-die which helps to keep heat dissipation and memory latency low. The CPU is connected to the Southbridge NM10, codenamed Tiger Point.

### Dual Core. Do more.

Shuttle always uses the dual-core variant of Intel's Atom processors and thus integrates the Atom D2550. This boosts the system performance significantly with particular regards to multi-threaded applications.



### Highly energy-saving

The XS35V3L barely consumes, depending on system load, about 16~20 Watts. Running the device\*) 5 days a week for eight hours a day, the annual consumption would amount to less than 40kWh which would mean just 8 Euros on the power bill (20 Euro ct/kWh) - way less than a conventional desktop PC draws.

\*) Based on a configuration with 2GB of memory, 160GB hard disk and Windows 7



### What does "Barebone" mean?

Shuttle's barebones line such as the XS35V3L is targeted at experienced users seeking to build a complete system to meet their individual requirements. The bulk of components is yet built in, simply the following hardware is to be installed upon purchase in this case:

- One 6.35 cm/2.5" Serial ATA hard disk or Solid State Disk (SSD)
- One or two DDR3 SO-DIMM memory modules (204 pins), max. 4 GB
- USB keyboard and USB mouse
- Optional: Slim-line optical drive (12.7mm height, DVD/Blu-ray, slimline format)
- Operating system: Windows 7, 32 bit



### Two monitor support with HDMI (DVI) and D-Sub/VGA

The integrated graphics supports multiple display support on up to two separate monitors via HDMI (DVI through optional adapter) and D-Sub/VGA. This improves the capabilities and productivity of the user by allowing them to spread multiple windows over two monitors and view them simultaneously.



### SD card reader

The built-in SD card reader at the front side makes it easy to transfer files from your camera so you can share videos and photos on your XS35V3L with ease.



### Kensington Lock

This is a small, metal-reinforced hole as part of an anti-theft system. As known from notebooks, this Mini-PC can also be safely locked by tying it to a solid object.

(The lock-and-cable apparatus is not included.)



### Optional second hard disk (Accessory PHD2N)

The optional accessory PHD2N supports a second 2.5" hard disk. Please note, that the bay for the optical drive will be occupied then.



### Tiny power adapter

The external 40W power adapter is virtually noiseless and can easily be hidden behind the desk thanks to its tiny dimensions.

Dimensions: 89.5 x 37 x 26.5 mm (LWH) = 88ml



### Easy installation

Remove just one screw to unmount the two chassis covers.



### Optional VESA mount (Accessory PV01)

Its optional VESA75/100 wallmount allows it to be installed on to walls or just affixed on the rear side of a monitor which is particularly interesting for the industry segment, company buildings and public institutions.



### 24/7 nonstop operation

Shuttle XS35V3L is officially approved for 24/7 permanent operation. Thanks to its low power consumption and completely passively cooling, this PC runs highly reliable making it perfectly suitable for digital signage and POI/POS applications.

#### Conditions for permanent use:

- Ambient temperature while under load: 5-35°C
- Air humidity while under load: 10-90% (not condensing)
- Free circulation of air amongst the PC must be guaranteed
- Ventilation holes must be clear
- If a hard disk is installed, this must also be approved for permanent operation by its manufacturer (max. one hard disk)



### Note on operating position

Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.



## Shuttle Barebone XS35V3L Specifications

<i>Fanless and silent</i>	<p>Passive cooling, no fan noise at all                  Perfect to be used in noise-sensitive environments                  Fanless, dust-free and thus virtually maintenance-free</p>
<i>Chassis</i>	<p>Dimensions without Stand: 25.2 x 16.2 x 3.85 cm (DxHxW)                  Weight: 2.1 kg net, 2.8 kg gross                  Hole for the Kensington Lock at the back panel                  Optional accessory: 75mm and 100mm VESA mounting kit (PV01)</p>
<i>Operation System</i>	<p>This system comes without operating system.                  It is compatible with Windows 7 (32 bit)</p>
<i>Processor</i>	<p>Intel Dual Core Atom processor D2550 (Codename: Cedarview)                  Intel Hyper-Threading technology: 2-threads per core                  32 nm manufacturing process, Micro-FCBGA11 package                  Intel 64 architecture, Core clock: 1.86 GHz                  L2 Cache: 1024kB , TDP: max. 10W                  Supports SSE2, SSE3, SSSE3, Execute Disable Bit                  Integrated North Bridge with controller for memory and graphics</p>
<i>Cooling</i>	<p>Passive, completely fanless cooling through convective heat transfer                  Warning: Please make sure the system is always placed upright using either its stand or the optional VESA mount.                  Ventilation holes must not be blocked to ensure sufficient cooling.</p>
<i>Chipset</i>	<p>Intel® NM10 Express Chipset (south bridge)                  Platform Controller Hub (PCH)                  Code name: Tiger Point</p>
<i>BIOS</i>	<p>AMI BIOS in a 8Mbit Flash ROM supports PnP, ACPI 2.0                  Supports Power fail resume / AC power on state / always on / always off                  Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states                  Supports Unified Extensible Firmware Interface (UEFI)</p>
<i>Memory</i>	<p>2x SO-DIMM slots with 204 pins                  Supports two modules DDR3-1066 (PC3-8500)                  DDR3-1333 is supported at DDR3-1066 clock rate                  Supported maximum capacity: 4 GB</p>
<i>Optical drive (opt.)</i>	<p>Support an optical DVD or Blu-ray slim-line drive                  Serial ATA interface, 12.7mm height, Slimline SATA connector</p>

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<p><i>Hard disk drive or SSD</i></p>	<p>Supports one Serial ATA hard disk (5400 / 7200 rpm) or one SATA SSD drive in 6.35cm/2.5" format The SATA 2.0 interface supports up to 300MB/s data transfer speed Supports a drive with 9.5mm height (12.5mm is not supported) Supports Unified Extensible Firmware Interface (UEFI)</p>
<p><i>Integrated Graphics</i></p>	<p>The Graphics Processing Unit (GPU) is integrated into the processor Intel GMA 3650, Graphics Base Frequency: 640 MHz Supports DirectX 9 Maximum shared memory: 8MB pre-allocated plus 384MB Video Memory Technology (DVMT) Two video outputs: HDMI v1.3 and D-Sub (VGA) Supports dual display in clone or extended mode</p>
<p><i>Integrated Audio</i></p>	<p>Integrated Audio IDT92HD81 Audio Codec with Azalia support Two analog audio connectors (3.5mm): 1) Line out (head phone) 2) microphone input Supports digital 7.1 HD audio via the HDMI port.</p>
<p><i>Card Reader</i></p>	<p>SD card reader at the front side Supports SDHC, SD, MS und MS-pro memory cards PCIe Interface</p>
<p><i>Wired Network</i></p>	<p>RJ45 connector supports Gigabit LAN at 10/100/1000 Mbit/sec. Network controller Realtek RTL8411 Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states</p>
<p><i>Wireless Network</i></p>	<p>Integrated card reader supports SD, SDHC and SDXC memory flash cards</p>
<p><i>Connectors</i></p>	<p>HDMI v1.3 digital video and audio output D-Sub/ VGA analog video ( 15 pin) 5x USB 2.0 (1x front, 4x rear) Gigabit network (LAN, RJ45) Audio Line-out (head phone) Microphone input DC input for the external power adapter</p>
<p><i>LEDs and buttons</i></p>	<p>Power button Power LED (white) Hard disk LED (blue)</p>
<p><i>Power supply</i></p>	<p>External 40W AC/DC power adapter (fanless), 19V / 2.1A AC Input: 100~240V AC, 50~60Hz Automatic voltage adjust Dimensions: 89.5 x 37 x 26.5 mm (LWH) DC Connector: 5.5/2.5mm (outer/inner diameter)</p>

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<p><i>Optional accessories</i></p>	<ul style="list-style-type: none"> <li>- VESA mount made of metal (PV01)</li> <li>- Adapter for second 2.5" drive instead of optical drive (PHD2N)</li> </ul>
<p><i>24/7 nonstop operation</i></p>	<p>This device is approved for 24/7 permanent operation.</p> <p>Requirements:</p> <ul style="list-style-type: none"> <li>- Free circulation of air amongst the PC must be guaranteed.</li> <li>- Ventilation holes must be clear.</li> <li>- If a hard disk is installed, this must also be approved for permanent operation by its manufacturer (max. one hard disk)</li> </ul>
<p><i>Environmental spec.</i></p>	<p>Operating temperature range: 0~35°C</p> <p>Relative humidity range: 10~90% (non-condensing)</p>
<p><i>Certification and Compliance</i></p>	<p>EMI: CE, FCC, BSMI, C-Tick, CCC</p> <p>Safety: CB, BSMI, ETL</p> <p>Other compliances: RoHS, Eup Lot6</p> <p>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-guidelines:</p> <ul style="list-style-type: none"> <li>- EMV-guideline 89/336/EWG electromagnetic tolerance</li> <li>- LVD-guideline 73/23/EWG use of electric devices within certain voltage-limits</li> </ul>

### Comparison: Shuttle Slim-PC Barebone PC XS35/XS36 Series

Model	Graphics	HDMI	DVI	D-Sub	RS232	WOL	ODD [4]	Atom Processor	Memory	LAN
XS35	Intel GMA3150	-	-	Yes	-	-	Yes	D510 (1.66 GHz)	Max. 2GB	100
XS35GT	NVIDIA ION2	Yes	-	Yes	-	-	Yes		DDR2-800 [6] 1x SO-DIMM	
XS35V2	Intel GMA3150	-	-	Yes	-	-	Yes	D525 (1.80 GHz)	Max. 4GB DDR3-800 [6] 1x SO-DIMM	Giga
XS35GT V2	NVIDIA ION2	Yes	-	Yes	-	-	Yes			
XS35GTA V2	ATI Mobility Rad. HD 5430	Yes	-	Yes	-	-	Yes			
XS35GS V2	ATI Radeon HD 7410M	Yes	-	Yes	-	-	Yes	Without "L": D2700 (2.13 GHz) "L"-version: [5] D2550 (1.86 GHz)	Max. 4GB DDR3-1066 [6] 2x SO-DIMM	Giga
XS35V3(L)	Intel GMA3650 [2]	Yes	-	Yes	-	Yes [3]	Yes			
XS35GTA V3 [1] XS35GS V3L	ATI Radeon HD 7410M	Yes	-	Yes	-	Yes [3]	Yes			
XS36V(L)	Intel GMA3650 [2]	Yes	Yes	Yes	2x	Yes [3]	-			

[1] XS35GTAV3 is also called XS35GS V3 outside EU.

[2] Intel offers sophisticated graphics driver for the integrated Intel GMA3650 graphics only for Windows 7 32 bit. Linux can be used in standard mode without video and 3D acceleration. (date Oct. 2012)

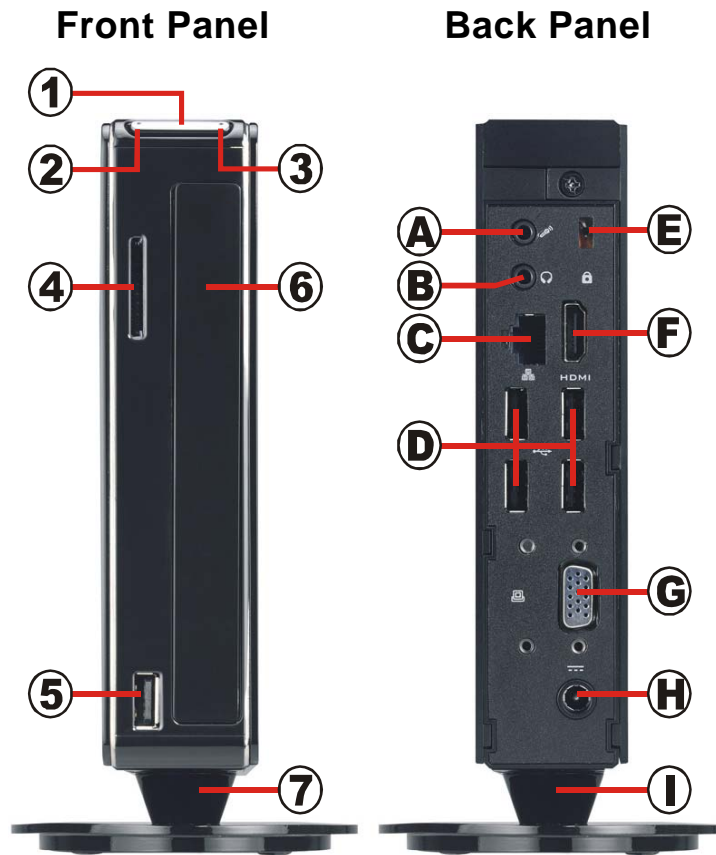
[3] Supports Wake-on-LAN (WOL), Power fail resume (always on/off) and Resume by RTC Alarm

[4] "ODD" means 5.25" bay for an optical drive in slim-line format

[5] In 2012, Intel phased out the Atom D2700 processor and introduced the D2550 as its successor. This new model comes with a slightly reduced clock rate, while any other features are maintained.

[6] DDR3-1333 is supported at DDR3-1066 or DDR3-800 clock rate, respectively.

Shuttle Barebone XS35V3L – Connectors



- 1 Power button
- 2 Power LED
- 3 Hard disk LED
- 4 SD card reader
- 5 USB connector
- 6 Bay for the optical slimline drive \*)
- 7 Vertical stand

- A Microphone input
- B Head phone output (Line out)
- C Gigabit LAN connector (RJ45)
- D 4x USB connectors
- E Hole for the Kensington-Lock
- F HDMI connector
- G D-Sub/VGA connector
- H Connector for the power adapter
- I Vertical stand

\*) Note: The optical drive is not included.



**Warning:**  
Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.





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