Suitable for continuous operation – fanless 1-litre PC

The XS35V3 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 D2700 processor clocked at 2x 2.13 GHz offers sufficient computing power for a wide range of possible applications. The XS35V3 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 XS35V3 is suitable for continuous 24/7 operation.

Feature Highlights

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<td>25.2 x 16.2 x 3.85 cm</td>
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<td><strong>Supports one 2.5&quot; SATA hard disk or SSD</strong></td>
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<td><strong>Applications</strong></td>
<td>Basic and Home-Media</td>
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Images are only for illustration purposes. The optical drive is not included.

Shuttle order no: PEB-XS35U301
Shuttle Barebone XS35V3 - 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 XS35V3 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.

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**The Atom processor integrates the graphics controller**
Shuttle XS35V3 is equipped with Intels Atom D2700 processor (2.13GHz, 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 D2700. This boosts the system performance significantly with particular regards to multi-threaded applications.

**Highly energy-saving**
The XS35V3 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 XS35V3 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 XS35V3 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 PHD2)
The optional accessory PHD2 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 XS35V3 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 XS35V3 Specifications

| Fanless and silent | Passive cooling, no fan noise at all  
Perfect to be used in noise-sensitive environments  
Fanless, dust-free and thus virtually maintenance-free |
|-------------------|---------------------------------|
| Chassis           | 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) |
| Operation System  | This system comes without operating system.  
It is compatible with Windows 7 (32 bit) |
| Processor         | Intel Dual Core Atom processor D2700 (Codename: Cedarview)  
Intel Hyper-Threading technology: 2-threads per core  
32 nm manufacturing process, Micro-FCBGA11 package  
Intel 64 architecture, Core clock: 2.13 GHz  
L2 Cache: 1024kB , TDP: max. 10W  
Supports SSE2, SSE3, SSSE3, Execute Disable Bit  
Integrated North Bridge with controller for memory and graphics |
| Cooling           | 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. |
| Chipset           | Intel® NM10 Express Chipset (south bridge)  
Platform Controller Hub (PCH)  
Code name: Tiger Point |
| BIOS              | AMI BIOS in a 8Mbit Flash ROM supports PnP, ACPI 2.0  
Supports external USB flash memory card boot up  
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) |
| Memory            | 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 |
| Optical drive (opt.) | Support an optical DVD or Blu-ray slim-line drive  
Serial ATA interface, 12.7mm height, Slimline SATA connector |
### Hard disk drive or SSD
- 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)

### Integrated Graphics
- 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

### Integrated Audio
- 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.

### Card Reader
- SD card reader at the front side
- Supports SDHC, SD, MS und MS-pro memory cards
- PCIe Interface

### Wired Network
- RJ45 connector supports Gigabit LAN at 10/100/1000 Mbit/sec.
- Network controller JMC 251
- Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states

### Wireless Network
- Integrated card reader supports SD, SDHC and SDXC memory flash cards

### Connectors
- 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

### LEDs and buttons
- Power button
- Power LED (white)
- Hard disk LED (blue)

### Power supply
- 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)
| Optional accessories | - VESA mount made of metal (PV01)  
|                      | - Adapter for second 2.5" drive instead of optical drive (PHD2) |

**24/7 nonstop operation**

This device is approved for 24/7 permanent operation.  
Requirements:  
- 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)

**Environmental spec.**

Operating temperature range: 0~35°C  
Relative humidity range: 10~90% (non-condensing)

**Certification and Compliance**

EMI: CE, FCC, BSMI, C-Tick, CCC  
Safety: CB, BSMI, ETL  
Other compliances: RoHS, Eup Lot6  
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:  
- EMV-guideline 89/336/EGW electromagnetic tolerance  
- LVD-guideline 73/23/EGW use of electric devices within certain voltage-limits

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

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<thead>
<tr>
<th>Model</th>
<th>Graphics</th>
<th>HDMI</th>
<th>DVI</th>
<th>D-Sub</th>
<th>R$232</th>
<th>WOL</th>
<th>Processor</th>
<th>Memory (SO-DIMM)</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS35</td>
<td>Intel GMA3150</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>Intel Atom D510 (2x 1.66GHz)</td>
<td>Max. 2GB DDR2-800 1x SO-DIMM slot</td>
<td>Fast Ethernet</td>
</tr>
<tr>
<td>XS35GT</td>
<td>NVIDIA ION2</td>
<td>Yes</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Intel Atom D525 (2x 1.80GHz)</td>
<td>Max. 4GB DDR3-800 1x SO-DIMM slot</td>
<td>Gigabit LAN</td>
</tr>
<tr>
<td>XS35V2</td>
<td>Intel GMA3150</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>Intel Atom D525 (2x 1.80GHz)</td>
<td>Max. 4GB DDR3-800 1x SO-DIMM slot</td>
<td>Gigabit LAN</td>
</tr>
<tr>
<td>XS35GTA2</td>
<td>NVIDIA ION2</td>
<td>Yes</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Intel Atom D525 (2x 1.80GHz)</td>
<td>Max. 4GB DDR3-800 1x SO-DIMM slot</td>
<td>Gigabit LAN</td>
</tr>
<tr>
<td>XS35V3</td>
<td>Intel GMA3650</td>
<td>Yes</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>Yes [3]</td>
<td>Intel Atom D2700 (2x 2.13GHz)</td>
<td>Max. 4GB DDR3-1066 2x SO-DIMM slots</td>
<td>Gigabit LAN</td>
</tr>
<tr>
<td>XS35GTA3</td>
<td>ATI Radeon HD 7410M</td>
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<td>Yes</td>
<td>-</td>
<td>-</td>
<td>Yes [3]</td>
<td>Intel Atom D2700 (2x 2.13GHz)</td>
<td>Max. 4GB DDR3-1066 2x SO-DIMM slots</td>
<td>Gigabit LAN</td>
</tr>
<tr>
<td>XS36V</td>
<td>Intel GMA3650</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>2x</td>
<td>Yes [3]</td>
<td>Intel Atom D2700 (2x 2.13GHz)</td>
<td>Max. 4GB DDR3-1066 2x SO-DIMM slots</td>
<td>Gigabit LAN</td>
</tr>
</tbody>
</table>

[1] XS35GTA3 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 graphics mode without video acceleration. (date April 2012)  
[3] Supports Wake-on-LAN (WOL), Power fail resume and Resume by RTC Alarm
Shuttle Barebone XS35V3 – Connectors

Front Panel

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

Back Panel

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