## Fanless 1-litre slim PC
## with ATI graphics and DVD drive

# XS35GS-804 V3L
*Slim PC*

XS35GS-804 V3L is a fully configured slim PC with 2 GB RAM, 500 GB hard disk and DVD-R/W drive, but without operating system. The powerful AMD Radeon™ HD 7410M graphics card makes fluent video playback on full-HD displays a reality. The Atom D2550 processor clocked at 2x 1.86 GHz offers sufficient computing power for a wide range of possible applications and the system barely consumes about 19~27 Watts. This PC comes totally fanless making it perfect to be used in noise-sensitive environments. XS35GS-804 V3L features WLAN and card reader, and sports an array of connectors too which include HDMI, D-Sub (VGA), 5x USB, VGA, Gigabit-LAN and 2x audio ports. It's a slim and stylish PC targeted for daily home or office applications and is capable of playing Full HD 1080p video and 3D contents.

*Fanless*

**RADEON GRAPHICS AMD**

## Feature Highlights

| | |
|---|---|
| *Chassis* | • Slim 1.5 litre chassis<br>• Dimensions: 25.2 x 16.2 x 3.85 cm<br>• Hole for the Kensington Lock<br>• Optional: VESA75/100 mounting kit PV01 |
| Operating system | • Without operating system<br>• Compatible with Windows 7 (32/64 bit) |
| CPU | • Intel Atom D2550 Dual Core (1.86 GHz) |
| Chipset | • Intel NM10 Express Chipset |
| Graphics | • AMD Radeon HD 7410M, 512MB DDR3<br>• DirectX 11, Shader Model 5.0 |
| Memory | • 2 GB DDR3-1333 SO-DIMM memory |
| Storage | • Slim-line DVD-R/W drive<br>• 500 GB 2.5" Serial ATA hard disk<br>• With SD card reader |
| Connectors and WLAN | • HDMI v1.4a<br>• D-Sub VGA<br>• 5x USB 2.0 (1x front, 4x rear)<br>• 2x Audio (mic, head phone)<br>• Gigabit-LAN<br>• WLAN 802.11 b/g/n |
| Power supply | • External 40W fanless power supply |
| Applications | • Basic and Home-Media |

Images are only for illustration purposes.

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Shuttle order no: PEC-XS35S3L11

# Shuttle Barebone XS35GS-804 V3L - 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 XS35GS-804 V3L 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.

**Intel Atom D2550 Dual Core**

**2x DDR3**

**ATI Mobility Radeon HD 7410M**

**NM10**

**WLAN**

### The Atom processor integrates the memory controller

Shuttle XS35GS-804 V3L is equipped with Intels Atom processor D2550 (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.
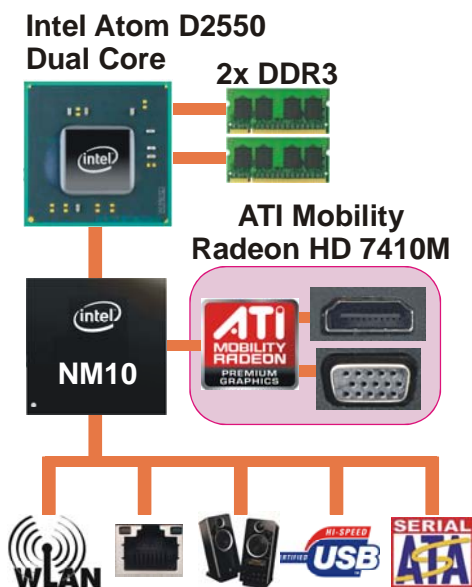
### Dual Core. Do more.

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.

### AMD Radeon HD 7410M graphics

Even with the small size, the Shuttle Barebone XS35GS-804 V3L is equipped with AMD Radeon HD 7410M graphics for a power-packing slim PC that's unmatchable in size and performance – and is made for more than just entertainment. Key benefits are:

• Better Performance for 3D rendering and video playback
• Digital 7.1 channel audio output over HDMI
• Supports DirectX 11 and Shader Model 5.0
• Ready to take on games

## Highly energy-saving

The XS35GS-804 V3L barely consumes, depending on system load, about 19~27 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 12 Euros on the power bill (20 Euro ct/kWh) - way less than a conventional desktop PC draws.

## 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.

## XS35GS-804 V3L supports Full HD 1080p video

The XS35GS-804 V3L with AMD Radeon HD 7410M graphics offers a plus in performance - experience movies at full-HD 1080p quality. The Shuttle Barebone XS35GS-804 V3L even takes on games. Benefit from an increase in performance when playing and converting videos, editing images and working with different applications at once. With AMD Radeon HD 7410M you get the maximum out of Windows 7.

## 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 XS35GS-804 V3L 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 tieing it to a solid object.
(The lock-and-cable apparatus is not included.)

### 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

### 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.

### 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.
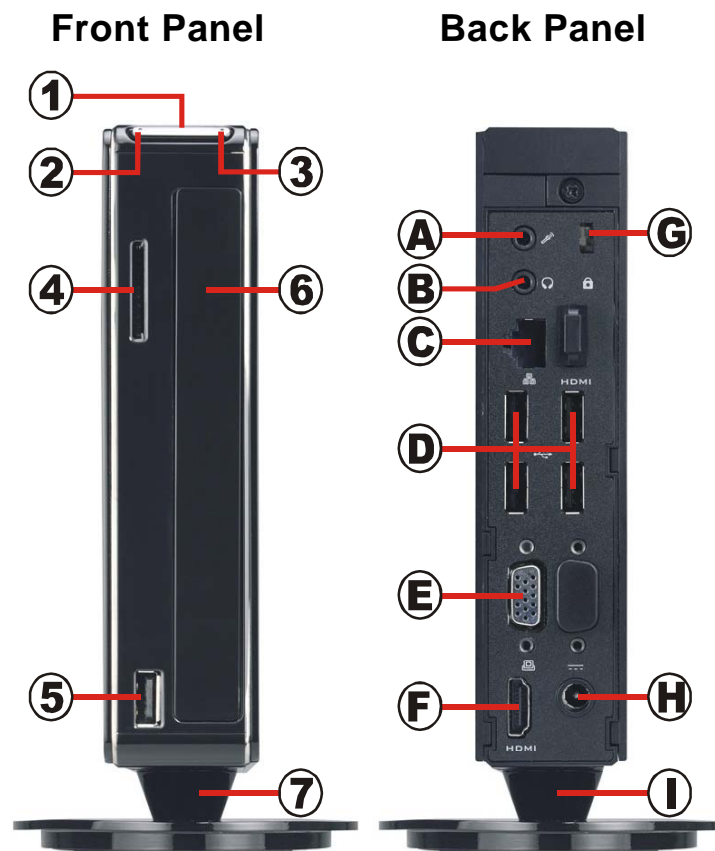
# Shuttle Barebone XS35GS-804 V3L Specifications

| | |
|---|---|
| **Fanless and silent** | Passive cooling, no fan noise at all<br>Perfect to be used in noise-sensitive environments<br>Fanless, dust-free and thus virtually maintenance-free |
| **Chassis** | Dimensions without Stand: 25.2 x 16.2 x 3.85 cm (DxHxW)<br>Hole for the Kensington Lock at the back panel<br>Optional accessory: 75mm and 100mm VESA mounting kit (PV01) |
| **Operation System** | This system comes without operating system.<br>It is compatible with Windows 7 (32 oder 64 bit) |
| **Processor** | Intel Dual Core Atom processor D2550 (Codename: Cedarview)<br>Intel Hyper-Threading technology: 2-threads per core<br>32 nm manufacturing process, Micro-FCBGA11 package<br>Intel 64 architecture, Core clock: 1.86 GHz, L2 Cache: 1024kB , TDP: max. 10W<br>Supports SSE2, SSE3, SSSE3, Execute Disable Bit<br>Integrated North Bridge with controller for memory and graphics |
| **Cooling** | Passive, completely fanless cooling through convective heat transfer<br>Warning: Please make sure the system is always placed<br>upright using either its stand or the optional VESA mount.<br>Ventilation holes must not be blocked to ensure sufficient cooling. |
| **Chipset** | Intel® NM10 Express Chipset (south bridge)<br>Platform Controller Hub (PCH)<br>Code name: Tiger Point |
| **BIOS** | AMI BIOS in a 8Mbit Flash ROM supports PnP, ACPI 2.0<br>Supports external USB flash memory card boot up<br>Supports Power fail resume / AC power on state / always on / always off<br>Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states<br>Supports Unified Extensible Firmware Interface (UEFI) |
| **Memory** | 2 GB DDR3-1333 SO-DIMM memory (at DDR3-1066 speed)<br>Supported maximum capacity: 4 GB |
| **Hard disk** | 500 GB 2.5" Serial ATA hard disk |
| **DVD drive** | Slim-line DVD-R/W drive<br>Serial ATA interface, 12.7 height, slim-line SATA connector |

| Integrated Graphics | AMD Radeon™ HD 7410M graphics processor (Dedicated 3D graphics card)<br>VRAM: 512MB DDR3, 800MHz, 64 bit, 160 Stream Processing Units, 40nm technology<br>Supports DirectX 11, Shader Model 5.0, OpenGL 4.1<br>Unified Video Decoder (UVD 3) dedicated video playback accelerator<br>Supports full HD decode (1080i/p)<br>Support for up to 2 simultaneous displays:<br>1) Digital HDMI™ 1.4a, max. resolution: 1920x1200<br>2) Analog D-Sub VGA, max. resolution: 2048x1536<br>Supports Extended Desktop Mode and Clone Mode<br>Integrated HD audio controller for 7.1 Surround Sound via HDMI.<br>Supports AC-3, AAC, Dolby TrueHD and DTS Master Audio formats. |
|---|---|
| Integrated Audio | Integrated Audio<br>IDT92HD81 Audio Codec with Azalia support<br>Two analog audio connectors (3.5mm):<br>1) Line out (head phone)<br>2) microphone input<br>Supports digital 7.1 HD audio via the HDMI port. |
| Card Reader | Integrated card reader supports SD, SDHC and SDXC memory flash cards |
| Wired Network | RJ45 connector supports Gigabit LAN at 10/100/1000 Mbit/sec.<br>Network controller Realtek RTL8411<br>Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states |
| Wireless Network | Supports IEEE 802.11b/g/n, max. 150Mbps up-/downstream<br>Security: WPA/WPA2(-PSK), WEP 64/128bit, IEEE 802.11x/i<br>Half size Mini-PCIe-Card |
| Connectors | HDMI v1.4a digital video and audio output<br>D-Sub/ VGA analog video ( 15 pin)<br>5x USB 2.0 (1x front, 4x rear)<br>Gigabit network (LAN, RJ45)<br>Audio Line-out (head phone)<br>Microphone input<br>DC input for the external power adapter |
| LEDs and buttons | Power button<br>Power LED (white)<br>Hard disk LED (blue) |
| Power supply | External 40W AC/DC power adapter (fanless), 19V / 2.1A<br>AC Input: 100~240V AC, 50~60Hz, Automatic voltage adjust<br>Dimensions: 89.5 x 37 x 26.5 mm (LWH)<br>DC Connector: 5.5/2.5mm (outer/inner diameter) |
| Optional accessories | - VESA mount made of metal (PV01)<br>- Adapter for second 2.5" drive instead of optical drive (PHD2) |

| Environmen-tal spec | Operating temperature range: 0~35°C<br>Relative humidity range: 10~90% (non-condensing) |
|---|---|
| Certification and Compliance | EMI: CE, FCC, BSMI, C-Tick, CCC<br>Safety: CB, BSMI, ETL<br>Other compliances: RoHS, Eup Lot6<br>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:<br>- EMV-guideline 89/336/EWG electromagnetic tolerance<br>- LVD-guideline 73/23/EWG use of electric devices within certain voltage-limits |

## Shuttle Barebone XS35GS-804 V3L – Connectors

### Front Panel     Back 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 |

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

**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.

## Shuttle XS Series Product Comparison

### Comparison: Shuttle Slim-PC XS35V3L Series (Barebone/System)

| Model | Type | Graphics | OS | RAM | HDD | DVD | Order no | Barcode |
|---|---|---|---|---|---|---|---|---|
| XS35V3L | Barebone | Intel GMA3650 | - | - | - | - | PEB-XS35U3L01 | 811686004288 |
| XS35GSV3L | Barebone | ATI HD 7410M | - | - | - | - | PEB-XS35S3L11 | 811686004295 |
| XS35-703 V3L | System w/o OS | Intel GMA3650 | - | 2 GB | 320 GB | - | PEC-XS35U3L01 | 4046047102600 |
| XS35GS-803 V3L | System w/o OS | ATI HD 7410M | - | 2 GB | 320 GB | - | PEC-XS35S3L21 | 4046047102648 |
| XS35GS-804 V3L | System w/o OS | ATI HD 7410M | - | 2 GB | 500 GB | Yes | PEC-XS35S3L11 | 4046047102655 |
| XS 3501BA V3 | System with OS | Intel GMA3650 | Win 7 Pro | 2 GB | 320 GB | - | PET-XS353BA2 | 4046047102624 |
| XS 3531MA V3 | System with OS | ATI HD 7410M | Win 7 HP 32 | 2 GB | 500 GB | Yes | PET-XS353MA1 | 4046047102662 |

### 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 DDR2-800 [6] 1x SO-DIMM | 100 |
| XS35GT | NVIDIA ION2 | Yes | - | Yes | - | - | Yes | | | |
| 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 | | | |
| XS35V3(L) | Intel GMA3650 [2] | Yes | - | Yes | - | Yes [3] | Yes | Without "L": D2700 (2.13 GHz) "L"-version: [5] D2550 (1.86 GHz) | Max. 4GB DDR3-1066 [6] 2x SO-DIMM | Giga |
| 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.

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