

Fanless 1-litre slim PC with ATI graphics, DVD drive and Windows 7

XS 3520MA V3 is a fully configured slim PC with 2 GB RAM, 500 GB hard disk, DVD-R/W drive and Windows 7 Home Premium operating system. The powerful AMD Radeon™ HD 7410M graphics card makes fluent video playback on full-HD displays a reality. The Atom D2700 processor clocked at 2x 2.13 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. XS 3520MA V3 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.

XS3520MA V3

Slim PC



Fanless



Feature Highlights

Chassis	<ul style="list-style-type: none"> Slim 1.5 litre chassis Dimensions: 25.2 x 16.2 x 3.85 cm Hole for the Kensington Lock Optional: VESA75/100 mounting kit PV01
Operating system	<ul style="list-style-type: none"> Windows 7 Home Premium
CPU	<ul style="list-style-type: none"> Intel Atom D2700 Dual Core (2.13GHz)
Chipset	<ul style="list-style-type: none"> Intel NM10 Express Chipset
Graphics	<ul style="list-style-type: none"> AMD Radeon HD 7410M, 512MB DDR3 DirectX 11, Shader Model 5.0
Memory	<ul style="list-style-type: none"> 2 GB DDR3-1333 SO-DIMM memory
Storage	<ul style="list-style-type: none"> Slim-line DVD-R/W drive 500 GB 2.5" Serial ATA hard disk SD card reader
Connectors and WLAN	<ul style="list-style-type: none"> HDMI v1.4a D-Sub VGA 5x USB 2.0 (1x front, 4x rear) 2x Audio (mic, head phone) Gigabit-LAN WLAN 802.11 b/g/n
Power supply	<ul style="list-style-type: none"> External 40W fanless power supply
Applications	<ul style="list-style-type: none"> Basic and Home-Media

Images are only for illustration purposes.



Shuttle order no: PET-XS353MA2

Shuttle Barebone XS 3520MA V3 - 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 XS 3520MA V3 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 memory controller

Shuttle XS 3520MA V3 is equipped with Intel's Atom processor D2700 (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.

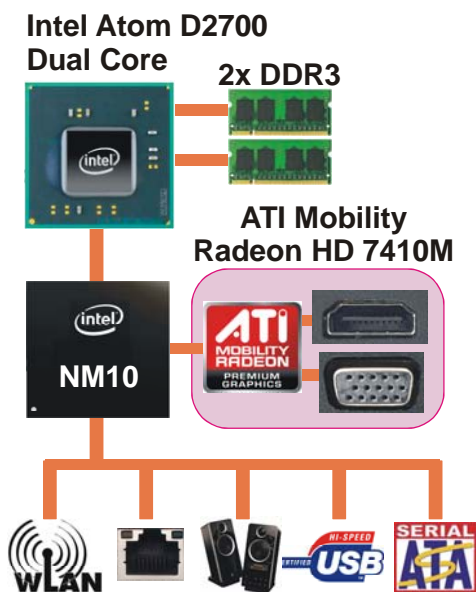
Dual Core. Do more.

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.

AMD Radeon HD 7410M graphics

Even with the small size, the Shuttle Barebone XS 3520MA V3 is equipped with AMD Radeon HD 7410M graphics for a power-packing slim PC that's unmatched 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 XS 3520MA V3 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.



XS 3520MA V3 supports Full HD 1080p video

The XS 3520MA V3 with AMD Radeon HD 7410M graphics offers a plus in performance - experience movies at full-HD 1080p quality. The Shuttle Barebone XS 3520MA V3 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 XS 3520MA V3 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.)



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.

XS35V3 Series Overview

Name	Order number	Graphics	Operating system	Memory	Hard disk	Optical drive	Bar code
XS35 V3	PEB-XS35U301	Intel GMA 3650	-	-	-	-	811686003786
XS35GTA V3	PEB-XS35A301	AMD Rad. HD 7410M	-	-	-	-	811686003717
XS35-703 V3	PEC-XS35U301	Intel GMA 3650	-	2 GB	320 GB	-	4046047102440
XS35GTA-803 V3	PEC-XS35A311	AMD Rad. HD 7410M	-	2 GB	320 GB	-	4046047102457
XS35GTA-804 V3	PEC-XS35A301	AMD Rad. HD 7410M	-	2 GB	500 GB	DVD R/W	4046047102464
XS 3500BA V3	PET-XS353BA1	Intel GMA 3650	Win 7 Professional 32 bit	2 GB	320 GB	-	4046047102396
XS 3520MA V3	PET-XS353MA2	AMD Rad. HD 7410M	Win 7 Home Prem. 32 bit	2 GB	500 GB	DVD R/W	4046047102402

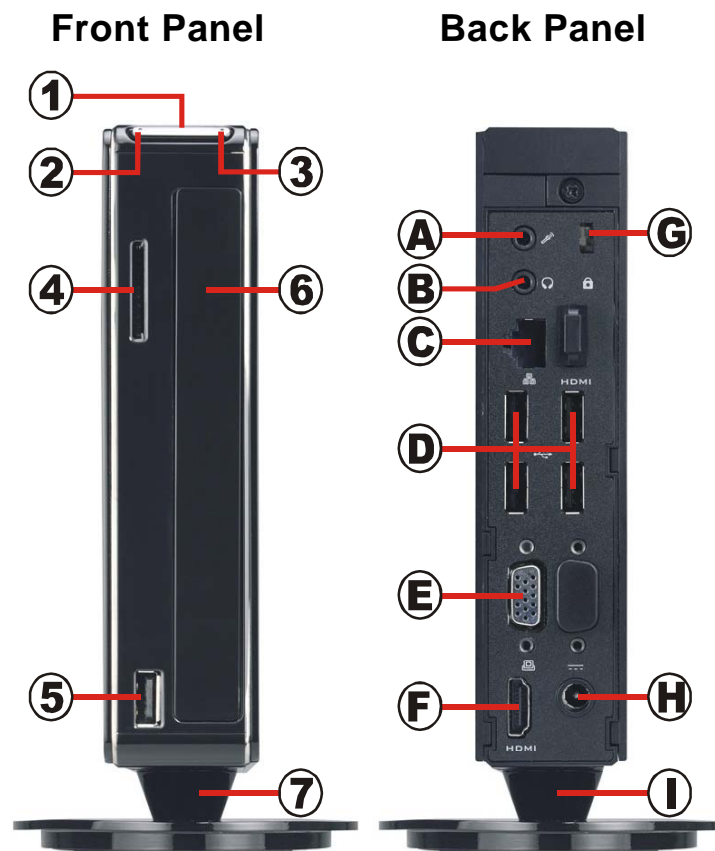
Shuttle Barebone XS 3520MA V3 Specifications

<i>Fanless and silent</i>	<p>Passive cooling, no fan noise at all</p> <p>Perfect to be used in noise-sensitive environments</p> <p>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)</p> <p>Hole for the Kensington Lock at the back panel</p> <p>Optional accessory: 75mm and 100mm VESA mounting kit (PV01)</p>
<i>Operation System</i>	<p>Windows 7 Home Premium</p>
<i>Processor</i>	<p>Intel Dual Core Atom processor D2700 (Codename: Cedarview)</p> <p>Intel Hyper-Threading technology: 2-threads per core</p> <p>32 nm manufacturing process, Micro-FCBGA11 package</p> <p>Intel 64 architecture, Core clock: 2.13 GHz, L2 Cache: 1024kB , TDP: max. 10W</p> <p>Supports SSE2, SSE3, SSSE3, Execute Disable Bit</p> <p>Integrated North Bridge with controller for memory and graphics</p>
<i>Cooling</i>	<p>Passive, completely fanless cooling through convective heat transfer</p> <p>Warning: Please make sure the system is always placed upright using either its stand or the optional VESA mount.</p> <p>Ventilation holes must not be blocked to ensure sufficient cooling.</p>
<i>Chipset</i>	<p>Intel® NM10 Express Chipset (south bridge)</p> <p>Platform Controller Hub (PCH)</p> <p>Code name: Tiger Point</p>
<i>BIOS</i>	<p>AMI BIOS in a 8Mbit Flash ROM supports PnP, ACPI 2.0</p> <p>Supports external USB flash memory card boot up</p> <p>Supports Power fail resume / AC power on state / always on / always off</p> <p>Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states</p> <p>Supports Unified Extensible Firmware Interface (UEFI)</p>
<i>Memory</i>	<p>2 GB DDR3-1333 SO-DIMM memory (at DDR3-1066 speed)</p> <p>Supported maximum capacity: 4 GB</p>
<i>Hard disk</i>	<p>500 GB 2.5" Serial ATA hard disk</p>
<i>DVD drive</i>	<p>Slim-line DVD-R/W drive</p> <p>Serial ATA interface, 12.7 height, slim-line SATA connector</p>

<i>Integrated Graphics</i>	<p>AMD Radeon™ HD 7410M graphics processor (Dedicated 3D graphics card) VRAM: 512MB DDR3, 800MHz, 64 bit, 160 Stream Processing Units, 40nm technology Supports DirectX 11, Shader Model 5.0, OpenGL 4.1 Unified Video Decoder (UVD 3) dedicated video playback accelerator Supports full HD decode (1080i/p) Support for up to 2 simultaneous displays: 1) Digital HDMI™ 1.4a, max. resolution: 1920x1200 2) Analog D-Sub VGA, max. resolution: 2048x1536 Supports Extended Desktop Mode and Clone Mode Integrated HD audio controller for 7.1 Surround Sound via HDMI. Supports AC-3, AAC, Dolby TrueHD and DTS Master Audio formats.</p>
<i>Integrated Audio</i>	<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>
<i>Card Reader</i>	<p>Integrated card reader supports SD, SDHC and SDXC memory flash cards</p>
<i>Wired Network</i>	<p>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</p>
<i>Wireless Network</i>	<p>Supports IEEE 802.11b/g/n, max. 150Mbps up-/downstream Security: WPA/WPA2(-PSK), WEP 64/128bit, IEEE 802.11x/i Half size Mini-PCIe-Card</p>
<i>Connectors</i>	<p>HDMI v1.4a 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>
<i>LEDs and buttons</i>	<p>Power button Power LED (white) Hard disk LED (blue)</p>
<i>Power supply</i>	<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>
<i>Optional accessories</i>	<p>- VESA mount made of metal (PV01) - Adapter for second 2.5" drive instead of optical drive (PHD2)</p>

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/EWG electromagnetic tolerance - LVD-guideline 73/23/EWG use of electric devices within certain voltage-limits

Shuttle Barebone XS 3520MA V3 – 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 D-Sub/VGA connector
- F HDMI connector
- G Hole for the Kensington-Lock
- H Connector for the power adapter
- I Vertical stand



Warning:

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