The energy saver with touchscreen

The new generation of Shuttle's All-in-One PCs are real energy savers. Thanks to Intel's new dual-core Atom D510 processor, energy consumption of the X 5020T could be reduced by 50 per cent. Its fanless chassis which is completely passively cooled makes sure the machine runs whisper quiet wherever it is used. Inputs can be made easily and conveniently as usual touching either its 15.6 inch display or using the included stylus. Also on board is a card reader, fast Ethernet, wifi, webcam, a set of built-in speakers and microphone. New to the array of connectors is one parallel and two serial interfaces at the rear of the PC for special applications. At the same time the X 5020T can be configured to meet individual requirements.

Shuttle All-in-One PC X5020T

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Touchscreen

Dual Core







Images for illustration purposes only.

Feature Highlight

time the X 5020T can be configured to meet individual requirements.					
Feature Highlight Full featured stylish PC platform Full solar 322 x 36 mm (V/U)					
All-in-one design	 Full featured stylish PC platform Small: 391 x 327 x 36 mm (WHL) Stand can also be used as a handle External, fanless power supply (40W) 				
CPU & Chipset	 CPU: Intel ATOM D510 Dual Core Codename: Pineview-D (1,66 GHz) Chipset: NM10 (Plattform Controller Hub) 				
Storage	 With 1~4 GB DDR2-667/800 Memory With one SATA hard disk or SSD drive (2.5") 				
Operating system	Windows 7 or Windows Vista				
Display & Graphics	 39.6cm (15.6") touchscreen (1366x768) Integrated graphics (GMA3150, DX9) VGA Video output (Extended Mode) 				
Connectivity	 4x USB, Audio: Mic, Line-out LAN connector, Wireless LAN (draft-n) Legacy ports: 2x serial, 1x parallel 				
Built-in	 SD card reader 1.3 Megapixel webcam 2x 2W speakers, Microphone 100mm VESA mount capable Light bar at the bottom 				
Power Supply	• 40W, fanless, Energy Star 5 compliant				
Warranty	• 24 months Pick-up-and-Return Service				

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Name	Operating System	Hard disk	Memory	Ser/Par Port	Barcode Number
Barebone X50V2	None	None	None	Included as	White: 811686003076
				accessory	Black: 811686003083
				Built in	White: 811686003113
					Black: 811686003090
System	Configurable	Configurable	Configurable	Built in	White: -
X 5020T	Configurable				Black: -
System	Windows 7 Home Premium	250 GB	2 GB	Built in	White: 4046047102068
X 5020TA					Black: 4046047102075
System	None	250 GB	2 GB	Built in	White: 4046047102082
X50X2A					Black: 4046047102099
System X502VA	Linux openSuSe	250 GB	2 GB	Built in	White: 4046047102105
					Black: 4046047102112

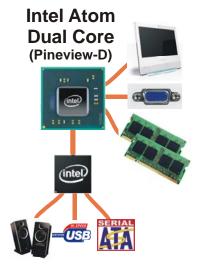
Shuttle X 50V2-Series – Product Overview (Europe)

Shuttle X 5020T - Special Product Features



All applications at your fingertips

The innovative touchscreen technology delivers the simplest operation possible and makes the screen the centre of action. Its high-quality design lets you control the whole range of multimedia - music, movies, video playback and web browsers start by just touching the screen.

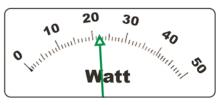


New Atom processor integrates the graphics core

Shuttle X 5020T is equipped with Intels new Atom processor, codenamed Pineview. It brings both the memory controller and graphics core on-die which helps to reduce the thermal output and memory latency. The CPU is connected to the Southbridge NM10, codenamed Tiger Point.

Dual Core. Do more.

The vast majority of the existing netbooks and all-in-one PCs with an Intel Atom CPU use the Single Core version. In contrast to this, Shuttle's all-in-one PC stands out from the crowd with its embedded Intel Atom D510 Dual Core processor, which is boosting the productivity of the PC system, particularly with regards to multithreaded applications.



Power saving

The new X 5020T version equipped with Intel Atom D510 Dual-Core processor and eco-friendly ENERGY STAR 5.0 qualified power adapter consumes about 22 Watt in full load mode, which is approximately half as much as with the previous Atom platform with Atom 330 processor and 945GC chipset (X 5000T).

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VGA Port

This VGA port can be used to connect a secondary external LCD display or beamer to the PC.

All-in-one PC

Your complete PC system with many components already built in comes in just one single device! This includes the webcam, microphone, mainboard, display, touchscreen input interface, Wireless LAN module and speakers. Saves you more space, looks simply stylish, less wiring.



Built-In Webcam and Microphone

The built-in 1.3 mega pixel webcam and microphone makes it easy to take pictures or stream live images across the Internet – and connect in real-time with friends, family, and colleagues.



Slim and chic

Designed as space-savers, this 15.6 inch all-in-one desktop PC only measures 3.6cm in depth.



Fanless - as quiet as 22dBA

The Shuttle X 5020T features a cooling system that combines an integrated heat-sink with thermal pads - and removes the fan. As an added benefit, it's not only quiet but also dust-free.



Carrying handle

Cleverly, the stand can be pulled up to serve as a handle - easy to move and light to carry with one hand.

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Shuttle[®]



Kensington Lock

This is a small, metal-reinforced hole as part of an anti-theft system. (The lock-and-cable apparatus is not included.)



VESA mounting

The stand on the rear can easily be removed unveiling four VESA mounting screw holes that can be used for mounting arms and other mounting devices from a variety of manufacturers.







Control AP Software

Click the "ControlAP"-Button and you can configure the following items with your fingers on the touchscreen:

- Screen brightness •
- Lght bar brightness •
- Wireless LAN On/Off
- Web camera On/Off
- Configuration of LCD and external VGA screen

4 Point Touch Screen Calibration

The Shuttle X 5020T features a precise touch screen input device. This can easily be calibrated just by pointing four times with the stylus pen on the screen. With this four point calibration, you can use demanding graphical user interfaces (GUI) that require precise cursor control to properly activate small icons, buttons, scroll bars, etc.

Serial and parallel legacy ports

Legacy ports are still a requirement for certain industrial applications. Thus, X 5020T provides one parallel and two serial ports at the back panel. (European version)

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Shuttle X 5020T Overview (Connectors, buttons, etc.)



- 1 Touchscreen LCD display
- 2 Webcam
- 3 Microphone
- 4 Power on LED
- 5 Hard disk LED
- 6 Wireless LAN LED (Wifi)
- 7 Stereo speakers
- 8 Light bar
- 9 Card reader
- 10 4 USB connectors
- LAN connector
 Microphone inp
- 12 Microphone input13 Audio line out (head phone)
- 14 VGA video output
- 15 Stand (handle)
- 16 Power on button
- 17 Stylus pen with holder
- 18 DC-input for power supply
- 19 Kensington lock
- 20 Vesa mount
- 21 2x COM, 1x Par. Ports





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Shuttle X 5020T – Range of Applications



Entertainment Music, Movies, Photo gallery, TV* *) TV tuner USB stick required



Work Banking, Shopping, Office, Stock trading



Control Surveillance, Home Automation, Control device



P.O.S. Point of sales



Education In schools, at home, for children and adults



Communication Email, VoIP, Messenger, Blog, Video Conferencing



Digital Signage Visual advertising, entertainment, displaying information in public areas

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Shuttle X 5020T – Specifications

Chassis	Color: white or black Dimensions: 391.3 x 327 x 36 mm (WxHxL) 100mm VESA mount capable Mounting hole for Kensington lock Light bar at the bottom
Operating system	Windows 7 Home Premium / Professional Windows Vista Home Basic / Home Premium
Touch- screen	Touchscreen function support fingertip input Resistance and single touch technology Including stylus pen for the touchscreen
39.6cm (15.6-inch) display	39.6cm/15.6" LCD display, ratio: 16:9 wide screen panel Resolution: 1366x768 = 1.05 Megapixels Adjustable Backlight: CCFL (Cold cathode fluorescent lamp)
Processor	Intel Dual Core Atom processor D510 (Codename: Pineview-D) 45nm manufacturing process, FCBGA559 Intel Hyper-Threading technology: 2-threads per core Intel 64 architecture, Core clock: 1.66GHz, L2 Cache: 1024kB , TDP: max. 15W Integrated North Bridge with controller for memory and graphics
South bridge	Intel® NM10 Platform Controller Hub (PCH), Codename: Tiger Point
BIOS	AMI BIOS in a 8Mb Flash ROM supports PnP, ACPI 3.0 Supports external USB flash memory card boot up
Memory	1~4 GB DDR2-667/800 SO-DIMM memory *)
Hard disk drives	Built-in Serial ATA hard disk or SATA SSD drive in 6.35cm/2.5" format
Card reader	Integrated card reader supports SD, SDHC and SDXC memory flash cards
Webcam	Integrated Webcam module with 1.3 Megapixel resolution
Audio Microphone Speakers	IDT92HD81 Audio Codec with Azalia support, two analog audio connectors (3.5mm): 1) Line out (head phone) 2) microphone input Front panel with integrated Electret Condenser Microphone and 2x 2W speakers

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Integrated graphics	The Graphics Processing Unit (GPU) is integrated into the processor Intel GMA 3150, 400MHz render clock frequency Intel Dynamic Vidieo Memory Technology 4.0 (DVMT 4.0) Share system memory max. 256MB Supports DirectX 9 and 2D/3D instruction set, Pixel Shader 2.0 MPEG2 hardware acceleration Intel Clear Video / ProcAmp technology allows user adjustment of hue, saturation, brightness and contrast Two display ports: - Digital LVDS channel supports up to 1366*768, 18bpp resolution - Analog RGB supports up to 2048*1536, 60Hz resolution - Supports Extended Desktop Mode and Clone Mode
LAN	JMicron JMC261 single-chip PCIe Fast Ethernet combo Card Reader Host controller IEEE 802.3u 100Base-T specification compliant Supports 10/100 MBit/s operation Supports S3 Wake-on-LAN (WOL) feature
Wireless LAN (Wifi)	Supports 802.11 b/g and draft-n Mini PCIe x1 card
Connectors	VGA connector (D-Sub 15 pol., analog) 4x USB 2.0 (2x left side, 2x right side) Netzwerk (RJ45) Audio Line-out (head phone) Microphone input 2x Serial ports, Parallel port DC input for power supply
LED's and buttons	Power button Power LED (blue) Hard disk LED (orange) Wireless-LAN / Wifi LED (green)
Power supply	Externes 40W Netzteil (lüfterlos), Abmessungen: 27 x 37 x 90mm Energy Star 5 konform Eingang (Wechselspannung): 100-240V AC, 50-60Hz Ausgang: 19V DC, max. 2,1A
Certifi- cations	Safety certifications: TÜV, CB, BSMI EMI certifications: CE, FCC, BSMI, R&TT Other certifications: RoHS, Energy Star 5
Environment	Operating temperature: $0 \sim 35^{\circ}$ C, Humidity: $0 \sim 60\%$
Warranty	24 months Pick-up-and-Return Service (PUR)

*) System resources and hardware (such as PCI and PCI Express) require physical memory address locations that can reduce available addressable system memory. This could result in a reduction of as much as 1 GB or more of physical addressable memory being available to the operation system and applications, depending on the system configuration and operation system.

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