All-in-One PC for POS, POI, Kiosk Applications

The Shuttle All-in-One PC X 5040XA is is powered by Intel's Celeron 2957U processor with 22nm Haswell architecture, which helps improve on power consumption and computing power. Thanks to its passive cooling, the system is very quiet and virtually maintenance-free. Particularly suitable for vertical applications is the arrangement of connectors at the bottom and the IP54 compliant front panel which is dust-protected and protected from splashing of water. This system is equipped with 4GB RAM and 500GB hard disk and supports all major operating systems including Windows 7, Windows 8.1 and Linux.

	Feature Highlights
All-in-One Design	 All-in-One PC Barebone with touchscreen Small: 391 x 327 x 42 mm (WHL) Stand can also be used as a handle 100mm VESA mount capable IP54 dust and water resistant (front panel)
Display & Graphics	 39.6cm (15.6") resistive touchscreen with 1366x768 resolution Integrated Intel HD graphics HDMI 1.4 + D-Sub/VGA Video output
CPU & Cooling	 Intel Celeron 2957U, 1.4 GHz, 15W TDP Fanless heatpipe cooling system
Storage	 4 GB DDR3L-1600 SO-DIMM 500 GB 2.5" SATA hard disk drive Supports mSATA SSD drive
Operating System	 Operating system is not included Supports Windows 7 / 8 (Embedded), Linux
Connectivity	 HDMI 1.4, D-Sub/VGA 2x USB 3.0, 4x USB 2.0, internal: 2x USB 2.0 Microphone input, head phone output Gigabit LAN, Wireless LAN 802.11n Optional: 4x RS232, 1x LPT, 1x RJ11
Built-in	 SD card reader 2.0 Megapixel HD webcam 2x 2W speakers Electret Condenser Microphone
Power Supply	• External fanless power adapter, 65W
Warranty	• 24 months Bring-in Service

Shuttle All-in-One PC System **X5040XA** White





Images for illustration purposes only.



15.6" Touchscreen



Fanless cooling



Windows 7/8 + Linux support



Front protected: dust & water



Up to four COM ports



Energyefficient



Wireless and Wired Network



2x USB 3.0 4x USB 2.0



Watchdog Hardware



Shuttle All-in-One PC System X 5040XA - Overview



- 1 Touchscreen LCD display
- 2 Webcam
- 3 Microphone
- 4 Power on LED
- 5 Hard disk LED
- 6 Stereo speakers
- **7** Power-on button
- 8 Stylus with holder9 Power Button

- 10 SD Card Reader
- **11** 2x USB 2.0

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- 12 Clear CMOS Button
- 13 Stand (handle)
- 14 Cooling Vents
- 15 Kensington lock
- 16 D-Sub/VGA Video Output
- 17 Vesa Mount 100x100mm

Perforation for TV antenna (9 mm)

- 19 DC-input for Power Adapter
 - 20 2x USB 2.0
 - 21 RJ45 Gigabit LAN
 - 22 2x USB 3.0
 - 23 HDMI Video Output
 - 24 Audio Line-out (Head Phone)
 - 25 Microphone Input



Shuttle All-in-One PC System X 5040XA – Special 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.



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. It helps you save space, looks simply stylish and reduces cable clutter.



Highly energy-saving

The Shuttle All-in-One PC System X 5040XA barely consumes, depending on system load, about 11 \sim 22.5 Watts. Running the device*) 5 days a week for eight hours a day, the annual consumption would amount to approx. 23 \sim 47 kWh which would mean just 6 \sim 12 Euros on the power bill (25 Euro ct/kWh) - way less than a conventional desktop PC draws.



Fanless and quiet

The Shuttle All-in-One PC System X 5040XA uses a passive thermal module with heatpipes to lead heat out of the case quickly and evenly. The unique fanless design makes 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 virtually maintenance-free.



Connects to two external Full HD displays

The Shuttle All-in-One PC System X 5040XA features two video outputs: One analog D-Sub/VGA connector and one HDMI connector. Two external Full HD displays can be connected in extended mode. Now add the built-in display of the X50V4 and there are three displays showing different content.



Protection Class IP54

The front panel of the Shuttle All-in-One PC System X 5040XA is dust-protected and protected from splashing of water according to IPprotection class 54. Consequently, this All-in-One PC can be used for those indoor applications, where the touchscreen may be exposed to humidity and occasional splashing of water. This is particularly welcome in restaurants, laboratories, production or other places.



Optimised Cable Management

Most of the connectors are located at the back panel facing down. This leads to an effective cable management making for a clean, tidy appearance on the desk.

On the left side sit those connectors which need to beaccessed from the front side: card reader and two USB ports.



Optional COM, LPT, DIO ports

Shuttle offers two optional accessories in order to add legacy ports to the Shuttle All-in-One PC System X 5040XA. While the Shuttle Accessory PCL71 adds two serial COM ports and one parallel LPT port, the POS01 adds two more COM ports (with RJ45 connector) and one Digital I/O 12V/24V (RJ11) for a cash drawer for example. COM ports are still commonly used for applications such as industrial automation systems, scientific analysis, POS systems and other industrial applications.



Power on after Power fail

The BIOS setup provides a "Power-On after Power Fail" function that can be found under "Power Management Configuration" where the PC's behaviour after power failure can be determined.



Always Power-on Jumper

The Shuttle All-in-One PC System X 5040XA also comes with a hardware-based solution. By removing Jumper 7 (see picture), the system will start unconditionally once power is applied.



Hidden Power Button

The power button can be deactivated to prevent unauthorized usage. Still it can be used with a straightened paper clip as shown on the left.



Internal USB Slot and perforation for external antenna

The Shuttle All-in-One PC System X 5040XA features an internal USB 2.0 connector (type A) for an USB stick of max. 9 cm in length and a 9 mm perforation for an optional antenna. The internal USB connector for expansion sticks (such as flash memory, DVB-T, SAT, 3G) or other USB devices like a radio module for home automation or RFID. Furthermore, there is a free USB header available on the mainboard.



VESA mount

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



Stylus for the touchscreen

The Shuttle All-in-One PC System X 5040XA is equipped with a 5-wire resistive touchscreen for simple operation by finger (even with gloves) or stylus. The stylus comes supplied as standard and sits in an opening located at the top of the chassis. Using the stylus results in a smoother and more precise input than just using the finger.

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Kensington Lock

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



Carrying handle

The practical stand can be pulled upwards to also serve as a handle making the Shuttle All-in-One PC System X 5040XA easy to carry.

Product Comparison

	Barebone X50V4	System POS X504	System X 5040XA	System X 5040TA
Platform	X50V4	X50V4	X50V4	X50V4
Processor	Intel Celeron 2957U	Intel Celeron 2957U	Intel Celeron 2957U	Intel Celeron 2957U
Memory	-	4 GB DDR3L SO-DIMM	4 GB DDR3L SO-DIMM	4 GB DDR3L SO-DIMM
Storage	-	60 GB SSD	500 GB hard disk	500 GB hard disk
Operating	-	-	-	Windows 8.1 64 Bit
System				
Legacy Ports	-	2x COM (D-Sub)	-	-
		2x COM (RJ45)		
		1x LPC (D-Sub)		
		1x DIO (RJ11)		
Barcode	White: 811686006893	White: 4046047102884	White: 4046047102907	White: 4046047102921
	Black: 811686006909	Black: 4046047102891	Black: 4046047102914	Black: 4046047102938

Shuttle All-in-One PC System X 5040XA - Range of Applications



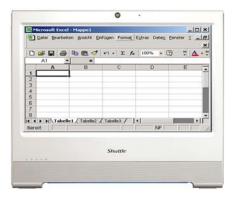
Entertainment Music, Movies, Photo gallery, TV* *) TV tuner USB stick required



P.O.S. Point of sales



Communication Email, VoIP, Messenger, Blog, Video Conferencing



Office Work Word and spreadsheet processing, email, internet



Control Surveillance, Home Automation, Control device



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

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Shuttle All-in-One PC System X 5040XA – Specifications		
Fanless and silent	Passive heatpipe cooling, no fan noise at all Perfect to be used in noise-sensitive environments Fanless, dust-free and thus virtually maintenance-free	
IP54 protected	The front panel is dust-protected and protected from splashing of water according to protection class IP54.	
Low power consumption	Power consumption: ca. 11 W (idle mode) and ca. 22.5 W (full load) When switched off: 0.25W (S5 mode with EUP=on) (Configuration: 4 GB RAM, 60 GB SSD and Windows 7)	
Chassis	Colour: white Dimensions: 391 x 327 x 42 mm (WxHxL) 100mm VESA mount capable Mounting hole for Kensington lock	
Operation System	This system comes without operating system. It is compatible with: - Windows 7 (including Embedded [1]), 32- and 64-bit - Windows 8 / 8.1 (including Embedded [1]), 32- and 64-bit - Linux, 32 and 64 Bit [2]	
Touchscreen	Touchscreen function supports fingertip input Resistive 5-wire single-touch technology Including stylus for the touchscreen	
15.6" Display	39.6cm / 15.6" LCD display, ratio: 16:9 widescreen panel Resolution: 1366x768 = 1.05 Megapixel Backlight unit: High power LED, Luminance: 220 cd/sqm Glass thickness: 0.5 mm	
Processor	Intel® Celeron® Processor 2957U (ultra low voltage) SOC with integrated chipset including controller for memory and graphics 22 nm manufacturing process, FCBGA1168 package 4th Generation Intel® Core™ Processor (Codename "Haswell") Dual Core (two threads), Core frequency: 1.4 GHz L1/L2/L3 Cache size: 128 kB, 512 kB, 2 MB Max. Thermal Design Power (TDP): 15 W Supports 64-bit instructions, Execute Disable Bit Intel® Virtualization Technology (VT-x) with Extended Page Tables (EPT) Enhanced Intel SpeedStep® Technology Thermal Monitoring Technologies Passive cooling without any fan	



Integrated Graphics	The Graphics Processing Unit (GPU) is integrated in the processor Intel® HD Graphics core 10 Execution Units (EUs) clocked at 200 - 1000 MHz Supports Intel® Quick-Sync-Video and Intel® Clear-Video Supports DirectX 11.1, OpenCL 1.2 and OpenGL 4.0, Shader 5.0 Shared Memory technology
Up to three displays	Two video outputs: HDMI v1.4 and D-Sub (VGA) Supports triple display: the integrated display plus two external displays 1) Clone mode: all displays show the same content at 1366x768 resolution 2) Extended mode: all displays show different content, while the external displays run at Full HD resolution (1920x1080) maximum.
BIOS	AMI BIOS in 8 MByte EEPROM with SPI interface Supports Power fail resume / AC power on state / always on / always off Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states Supports hardware monitoring and watch dog functionality
Memory	4 GB DDR3L-1600 SO-DIMM memory (maximum capacity: 8 GB) <u>Caution:</u> This mainboard does only support 1.35V DDR3L memory modules. Note: DDR3L has a lower operation voltage compared to DDR3
Storage	500 GB SATA hard disk drive in 6.35cm/2.5" format
Mini-Slots	This devices comes with two mini expansion slots: 1) the half-size slot is occupied with a WLAN module 2) the full-size slot supports a mSATA flash memory card (max. 6 Gbit/s)
Card Reader	Integrated card reader supports SD, SDHC and SDXC memory flash cards
Webcam	Integrated 2.0 Megapixel (1600x1200) HD webcam
Microphone Speakers	Front panel with integrated Electret Condenser Microphone and 2x 2W speakers
Audio	Realtek ALC269 Audio Codec Two analog audio connectors (3.5mm): 1) Line-out (head phone) 2) Microphone input Digital Audio is supported via HDMI.
Wired Network	RJ45 connector supports Gigabit LAN at 10/100/1000 Mbit/sec. Network controller Realtek 8111G Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states
Wireless Network	WLAN chip: Realtek 8188EE Supports IEEE 802.11b/g/n, max. 150Mbps up-/downstream Security: WPA/WPA2, WEP Half-size Mini-PCle-Card



Front LEDs	Power LED (blue) Hard disk LED (orange)
Connectors left side	Power button 2x USB 2.0 SD card reader Hole with power button Hole with Clear CMOS button
Connectors bottom side	HDMI 1.4 digital audio/video 2x USB 3.0 2x USB 2.0 Gigabit Network (RJ45, 8 pins) Audio Line-out /head phone (3.5 mm jack socket) Microphone input (3.5 mm jack socket) DC input for external power adapter (5.5 / 2.5 mm) Perforation for optional TV/3G antenna (diameter: 9 mm)
Connectors back side	VGA analog video (D-Sub, 15 pin)
Connectors onboard	Serial ATA (6 Gbps) Serial ATA power connector 4x USB 2.0 header (three occupied, one free) Fan connector (4-pin) LVDS header (Low Voltage Differential Signaling) LPC header (Low Pin Count)
Power Adapter	External 65 W power adapter (fanless) Input: 100~240 V AC, 50/60 Hz, max. 1.6 A Output: 19 V DC, max. 3.42 A, max. 65 W DC Connector: 5.5 / 2.5 mm (outer/inner diameter)
Included Accessories	Quick Guide Driver DVD External Power Adapter (65W) Power cord Serial ATA cable for the 2.5" drive Screws
Optional Accessories	PCL71: COM / LPT adapter: - 1x Parallel (25p D-Sub) - 2x Serial RS232 (9p D-Sub) supports 0 / 5 / 12V POS01: COM / LPT adapter: - 1x Parallel (25p D-Sub) - 2x Serial RS232 (9p D-Sub) supports 0 / 5 / 12V - 2x Serial RS232 (9p D-Sub) supports 0 / 5 / 12V - 2x Serial RS232 (8p RJ45) - 1x DIO/RJ11 connector for cash drawer supports 12 / 24V PF55: Carrying bag



Environ- mental criteria	Operating temperature: 0~35°C Humidity: 10~90%
Certification and Compliance	EMI: CE, FCC, BSMI, C-Tick Safety: CB, BSMI, ETL, CCC Other compliances: RoHS, ErP Lot6, Energy Star v5.0
Conformity	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

[1] Note regarding supported Windows Embedded versions:

Supports Embedded versions based on Windows 7/8:

- Windows 7 Ultimate for Embedded Systems
- Windows 7 Professional for Embedded Systems
- Windows Embedded Standard 7
- Windows Embedded POSReady 7
- Windows Embedded 8.1
- Windows Embedded 8/8.1 Industry

Do not support Embedded versions based on Windows XP:

- Windows XP Embedded
- Windows XP Professional for Embedded Systems
- Windows Embedded Standard 2009
- Windows Embedded POSReady 2009
- Windows Embedded for Point of Service (WEPOS)

[2] Linux compatibility

testet with Ubuntu Fedora 20 x64, Ubuntu 14.04 x64 und OpenSuse 13.1 x64