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

The Shuttle XPC all-in-one X50V6U3 is the latest addition to the X50 Series and is powered by Intel's Core i3-7100U processor. The all-new 14 nm Kaby Lake architecture helps improve on power consumption and computing power. Thanks to its passive cooling, the system is virtually noiseless, maintenance-free and approved for 24/7 nonstop operation. 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.

Feature Highlights

All-in-One Design	 XPC all-in-one with touchscreen Small: 391 x 327 x 42 mm (WHL) Stand can also be used as a handle 100 mm VESA mount capable IP54 compliant front panel Approved for 24/7 nonstop operation
Display & Graphics	 39.6 cm (15.6") resistive touchscreen with a 1366 x 768 resolution Integrated Intel HD 610 graphics HDMI 1.4 + D-Sub/VGA Video output
CPU & Cooling	 Intel Core i3-7100U, 2.4 GHz, 15 W TDP Fanless heatpipe cooling system
Storage (not included)	 Supports max. 2x 16 GB DDR4-2133 SO-DIMM Supports one 2.5" SATA hard disk / SSD Supports one M.2-2280 SSD (SATA / PCIe) Supports internal USB stick (USB 2.0, type A)
Operating System	 Operating system is not included Supports Windows 10 (64-bit) & Linux (64-bit)
Connectivity	 HDMI 1.4, D-Sub/VGA 2x USB 3.0, 4x USB 2.0, internal: 2x USB 2.0 Microphone input, headphones 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 2 W speakers Electret Condenser Microphone
Power Supply	• External fanless power adapter, 65 W
Warranty	• 24 months Bring-in Service

XPC all-in-one Barebone X50V6U3 White













dust & water





Supports Windows 10 & Linux (64-bit)

cooling





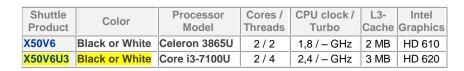
COM ports







2x USB 3.0 Watchdog 4x USB 2.0 Hardware





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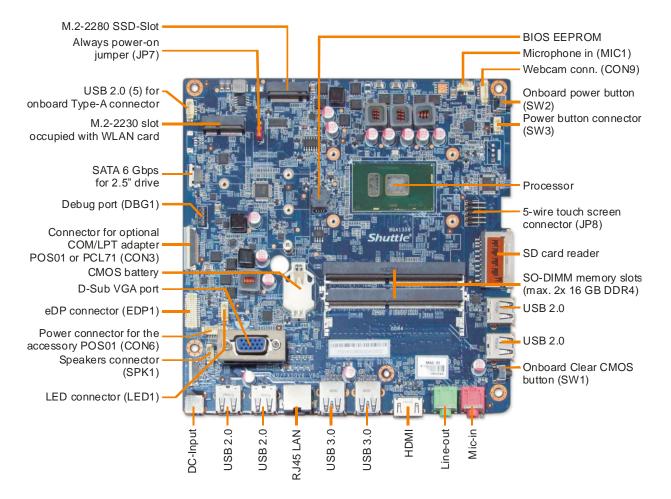


- 2 Webcam
- 3 Microphone
- Power on LED 4
- 5 Hard disk LED
- 6 Stereo speakers
- 7 Power-on button 8 Stylus with holder
- Power Button 9
- 15 Kensington lock
- D-Sub/VGA Video Output 16
- 17 Vesa Mount 100x100mm
- Optional: 2x COM + LPT (PCL71) 18
- Optional: 4x COM, LPT, RJ11 (POS01)
- Perforation for TV antenna (9 mm)
- 2x USB 3.0 24
- 25 HDMI Video Output
- 26 Audio Line-out (headphones)
- 27 **Microphone Input**

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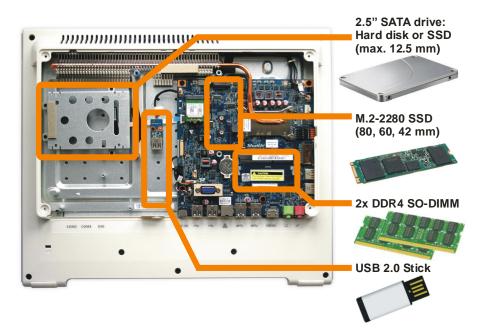
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Shuttle Computer Handels GmbH Fritz-Strassmann-Str. 5 25337 Elmshorn | Germany



Shuttle XPC all-in-one X50V6U3 – Mainboard

Installable Components:



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Shuttle XPC all-in-one X50V6U3 – 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.



24/7 nonstop operation

The Shuttle XPC all-in-one X50V6U3 is officially approved for 24/7 permanent operation. Thanks to its low power consumption and completely passive 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 $^\circ\text{C}$
- Air humidity while under load: 10 80 % (not condensing)
- Free circulation of air amongst the PC must be guaranteed
- Ventilation holes must be kept clear
- If a hard disk is installed, this must also be approved for permanent operation by its manufacturer.



Fanless and quiet

The Shuttle XPC all-in-one X50V6U3 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.

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Connects to two external Full HD displays

The Shuttle XPC all-in-one X50V6U3 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 X50V6U3 and there are three displays showing different content.

Protection Class IP54

The front panel of the Shuttle XPC all-in-one X50V6U3 is dust-protected and protected from splashing of water according to IP protection 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.



Supports high-performance M.2 SSDs

The M.2 slot (type 2280) is fully-equipped with 4X PCI-Express v3.0 lanes and SATA 3.0 interfaces. Modern M.2 SSDs with PCI Express interface (PCIe) and NVMe provide a significant higher bandwith compared to the usual SATA standard. Type 2280 means it supports the usual M.2 cards with a width of 22 mm and a length of 80 mm, but also 2242 and 2260 standard cards are supported.



Optimised Cable Management

Most of the connectors are now 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 be accessed from the front: the card reader and two USB ports.



PCL71

Optional COM, LPT, DIO ports

Shuttle offers two optional accessories in order to add legacy ports to the Shuttle XPC all-in-one X50V6U3. 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 12 V / 24 V (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.

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Aptio Setup U Advanced	tility – Copyr
Suspend Mode	[S3(STR)]
Wake Up By USB (S3)	[Enabled]
EuP Function	[Enabled]
Power-On after Power-Fail	[Power Off]
Wake Up by LAN	[Disabled]
PowerOn by RTC Alarm	[Disabled]

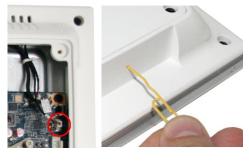
Power on after Power fail

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 XPC all-in-one X50V6U3 also comes with a hardware-based solution. By removing Jumper 7, the system will start unconditionally once power is applied.



Hidden Power Button

<u>Left photo:</u> The power button can be deactivated to prevent unauthorized use. Do this by disconnecting the appropriate connection inside the chassis (see marking). <u>Right photo:</u> 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 XPC all-in-one X50V6U3 features an internal USB 2.0 connector (type A) for a 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.

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Stylus for the touchscreen

The Shuttle XPC all-in-one X50V6U3 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 a finger.



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 XPC all-in-one X50V6U3 easy to carry. Clever!

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Shuttle XPC all-in-one X50V6U3 – Range of Applications



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



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



Instore Radio Playing advertising and music

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Shuttle XPC all-in-one X50V6U3 – 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
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 kept clear. If a hard disk is installed, this must also be approved for permanent operation by its manufacturer.
IP54 protected	The front panel is dust-protected and protected from splashing of water according to protection class IP54.
Chassis	Colour: white Dimensions: 391 x 327 x 42 mm (W x H x D) 100mm VESA mount capable Mounting hole for Kensington lock Weight: 3.6 kg net, 4.8 kg gross
Operation System	This system comes without operating system. It is compatible with: - Windows 10 (64-bit) - Linux (64-bit)
Touchscreen	Touchscreen function supports fingertip input Resistive 5-wire single-touch technology Stylus for the touchscreen included
15.6" Display	39.6 cm / 15.6" LCD display, ratio: 16:9 widescreen panel Resolution: 1366 x 768 = 1.05 Megapixel Backlight unit: High power LED, Luminance: 220 cd/sqm Glass thickness: 0.5 mm
Processor	Model: Intel Core i3-7100U (ULV) System-on-a-chip architecture (SoC): no chipset required BGA1356 package - directly soldered onto the mainboard Code name: Kaby Lake-U (7th Generation Intel Core) Cores / Threads: 2 / 4, Clock rate: 2.4 GHz L1/L2/L3 Cache: 128 kB / 512 kB / 3072 kB Memory controller: DDR4-2133 Dual Channel (1.2 V) TDP wattage: 15 W maximum Manufacturing process: 14 nm Maximum Tjunction Temperature: 100 °C Supports Hyper-Threading (HT), 64-bit, VT-x (EPT), VT-d, Enhanced SpeedStep, NX bit, AES- NI, SSE 4.1/4.2



Integrated Intel HD Graphics 420 GPU clock frequency: 300–1000 MHz Execution Units (EU: 24 Supports Direct X 12 Supports Quick Sync Video and Clear Video HD technology Up to three displays Two video ports support No additional independent screens: 1) HDMI 1.4 supports 1920 x 1080 @ 60 Hz or 3840 x 2160 @ 30 Hz 2) VGA / D-Sub analog video supports 1920 x 1080 @ 60 Hz Supports Clarcet Conditions for operation in Multi-Monitorium mode: 1) Clone mode: all displays show the same content at 1366 x 768 resolution 2) Extended mode: all displays show the same content at 1366 x 768 resolution 2) Extended mode: all displays show the same content at 1366 x 768 resolution 2) Extended mode: all displays show the same content at 1366 x 768 resolution 2) Extended mode: all displays are provide show for a same content at 1366 x 768 resolution 2) Extended mode: all displays are provide show and the same content at 1366 x 768 resolution 2) Extended mode: all displays are provide shows and supports for a maximum of a same content at 12.2 Y Supports Drata Thank and thir A20 pins Supports Drata Channel mode Supports bard Channel mode Supports a maximum of 1 68 per DIMM, maximum total size: 32 G8 Supports one SATA hard disk or one SATA SD drive in 6.35 cm		
Up to three 1) HDMI 1.4 supports 1920 x 1080 @ 60 Hz or 3840 x 2160 @ 30 Hz Up to three 2) VGA / D-Sub analog video supports 1920 x 1080 @ 60 Hz Special conditions for operation in Multi-Monitoring mode: 1) Clone mode: all displays show the same content at 1366 x 768 resolution 2) VGA / D-Sub analog video supports 1920 x 1080 @ 60 Hz Special conditions for operation in Multi-Monitoring mode: 1) Elos AMI BIOS in 8 MByte EEPROM with SPI interface Supports Power fail resume / always on Supports Wake-on-LAN (WOL) from S3, 54 S5 ACPI states Supports brackware monitoring and watch dog functionality Supports DR4-2133 (PC4-17000) SDRAM at 1.2 V Supports DDR4-2133 (PC4-17000) SDRAM at 1.2 V Supports DDR4-2133 (PC4-17000) SDRAM at 1.2 V Supports two unbuffered DIMM modules (no ECC or registered) Supports two unbuffered DIMM modules (no ECC or registered) Storage Supports one SATA hard disk or one SATA SSD drive in 6.35 cm /2.5* format The SATA 3.0 inferface supports up to 000 MB/s data transfer speed (6 Gbit/s). Supports one drive with up to 12.5 mm in height M.2-2280 Stor (max) The SATA 3.0 (max. 6 Gbps) Its upports M.2 cards with a width of 22 mm and a length of 42, 60 or 80 mm (type 2242, 2260, 2280). Supports M.2 SATA vSDs (with B+M key) and M.2 PCIe SSDs (with M key) Card Integrated card reader supports SD, SDHC and SDXC memory flash cards	-	GPU clock frequency: 300~1000 MHz Execution Units (EUs): 24 Supports DirectX 12 Supports full H264, H265 8/10 bit, VP8/9, VC-1, AVC hardware decoding
BIOS Supports Power fail resume / always on Supports Make-on-LAN (WOL) from S3, S4, S5 ACPI states Supports Supports Pirmware TPM v2.0 functionality Memory 2x SO-DIMM slot with 260 pins Supports DDR4-2133 (PC4-17000) SDRAM at 1.2 V Supports DDR4-2133 (PC4-17000) SDRAM at 1.2 V 	· · · · · · · · · · · · · · · · · · ·	 HDMI 1.4 supports 1920 x 1080 @ 60 Hz or 3840 x 2160 @ 30 Hz VGA / D-Sub analog video supports 1920 x 1080 @ 60 Hz Special conditions for operation in Multi-Monitoring mode: Clone mode: all displays show the same content at 1366 x 768 resolution
Supports DDR4-2133 (PC4-17000) SDRAM at 1.2 V Supports Dual Channel mode Supports a maximum of 16 GB per DIMM, maximum total size: 32 GB Supports two unbuffered DIMM modules (no ECC or registered)StorageSupports one SATA hard disk or one SATA SSD drive in 6.35 cm /2.5" format The SATA 3.0 interface supports up to 600 MB/s data transfer speed (6 Gbit/s). Supports one drive with up to 12.5 mm in heightM.2-2280The M.2 2280 BM slot provides the following interfaces: - PCI-Express Gen. 3.0 X4 with up to 32 Gbps Data Transfer Speed - SATA v3.0 (max. 6 Gbps) It supports M.2 cards with a width of 22 mm and a length of 42, 60 or 80 mm (type 2242, 2260, 2280). Supports M.2 SATA SSDs (with B+M key) and M.2 PCIe SSDs (with M key)Card ReaderIntegrated card reader supports SD, SDHC and SDXC memory flash cardsWebcamIntegrated 2.0 Megapixel (1600 x 1200) HD webcamMicrophone SpeakersFront panel with integrated Electret Condenser Microphone and 2x 2W speakersAudioRealtek ALC269 Audio Codec Two analog audio connectors (3.5 mm) on the bottom side: 1) Line-out (headphones) 2) Microphone input	BIOS	Supports Power fail resume / always on Supports Wake-on-LAN (WOL) from S3, S4, S5 ACPI states Supports hardware monitoring and watch dog functionality
StorageThe SATA 3.0 interface supports up to 600 MB/s data transfer speed (6 Gbit/s). Supports one drive with up to 12.5 mm in heightM.2-2280The M.2 2280 BM slot provides the following interfaces: - PCI-Express Gen. 3.0 X4 with up to 32 Gbps Data Transfer Speed - SATA v3.0 (max. 6 Gbps) It supports M.2 cards with a width of 22 mm and a length of 42, 60 or 80 mm (type 2242, 2260, 2280). Supports M.2 SATA SSDs (with B+M key) and M.2 PCIe SSDs (with M key)Card 	Memory	Supports DDR4-2133 (PC4-17000) SDRAM at 1.2 V Supports Dual Channel mode Supports a maximum of 16 GB per DIMM, maximum total size: 32 GB
M.2-2280 Slot- PCI-Express Gen. 3.0 X4 with up to 32 Gbps Data Transfer Speed - SATA v3.0 (max. 6 Gbps) It supports M.2 cards with a width of 22 mm and a length of 42, 60 or 80 mm (type 2242, 2260, 2280). Supports M.2 SATA SSDs (with B+M key) and M.2 PCIe SSDs (with M key)Card ReaderIntegrated card reader supports SD, SDHC and SDXC memory flash cardsWebcamIntegrated 2.0 Megapixel (1600 x 1200) HD webcamMicrophone 	Storage	The SATA 3.0 interface supports up to 600 MB/s data transfer speed (6 Gbit/s).
ReaderIntegrated card reader supports SD, SDHC and SDXC memory flash cardsWebcamIntegrated 2.0 Megapixel (1600 x 1200) HD webcamMicrophone SpeakersFront panel with integrated Electret Condenser Microphone and 2x 2W speakersAudioRealtek ALC269 Audio Codec Two analog audio connectors (3.5 mm) on the bottom side: 1) Line-out (headphones) 2) Microphone input		 PCI-Express Gen. 3.0 X4 with up to 32 Gbps Data Transfer Speed SATA v3.0 (max. 6 Gbps) It supports M.2 cards with a width of 22 mm and a length of 42, 60 or 80 mm (type 2242, 2260, 2280).
Microphone Speakers Front panel with integrated Electret Condenser Microphone and 2x 2W speakers Audio Realtek ALC269 Audio Codec Two analog audio connectors (3.5 mm) on the bottom side: 1) Line-out (headphones) 2) Microphone input		Integrated card reader supports SD, SDHC and SDXC memory flash cards
Speakers 2x 2W speakers Audio Realtek ALC269 Audio Codec Two analog audio connectors (3.5 mm) on the bottom side: 1) Line-out (headphones) 2) Microphone input	Webcam	Integrated 2.0 Megapixel (1600 x 1200) HD webcam
Two analog audio connectors (3.5 mm) on the bottom side:Audio1) Line-out (headphones)2) Microphone input		
	Audio	Two analog audio connectors (3.5 mm) on the bottom side: 1) Line-out (headphones) 2) Microphone input

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Wired Network	Intel i211 Ethernet Controller with MAC, PHY and PCIe interface Supports 10 / 100 / 1.000 MBit/s operation Supports WAKE ON LAN (WOL) from S3, S4 modes Supports network boot by Preboot eXecution Environment (PXE)
Wireless Network	WLAN chip: Realtek 8188EE Supports IEEE 802.11b/g/n for 2.4 GHz band Speed: max. 150Mbps up-/downstream Security: WPA/WPA2, WEP M.2-2230AE card with internal antenna
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 (supports digital video and digital audio) 2x USB 3.0 2x USB 2.0 Gigabit Network (LAN, RJ45) Audio Line-out / headphones (3.5 mm jack) Microphone input (3.5 mm jack) DC input for external power adapter (5.5 / 2.5 mm) Perforation for optional TV/3G antenna (diameter: 9 mm) Optional: 2x COM/serial (RJ45), DIO (RJ11) for cash drawer (accessory POS01)
Connectors rear side	VGA connector (D-Sub 15 pol., analog video) Optional: 2x COM/serial (D-Sub), 1x LPT/parallel (accessory: PCL71 or POS01)
Connectors onboard	Internal USB 2.0 type A connector for a USB stick Serial ATA (6 Gbps) Serial ATA power connector 3x USB 2.0 header (all occupied) eDP connector (Embedded DisplayPort) - occupied by the display Connector for optional COM/LPT adapter POS01 or PCL71
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 Input	DC Input Connector: 5.5 / 2.5 mm (outer/inner diameter) The DC-input of the computer supports an external power source with either 12V±5% or 19V±5%.

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Included Accessories	Quick Guide Driver DVD External Power Adapter (65W / 19V) with 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 (8p RJ45) - 1x DIO/RJ11 connector for cash drawer supports 12 / 24V PF55: Carrying bag
Environ- mental criteria	Operating temperature: 0~40 °C Humidity: 10~90 %
Certification and Compliance	EMI: CE, FCC, BSMI Safety: CB, BSMI, ETL Other compliances: RoHS, ErP Lotó, 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 directives: (1) 2004/108/EC relating to electromagnetic compatibility (EMC), (2) 2006/95/EC relating to Electrical Equipment designed for use within certain voltage limits (LVD), (3) 2009/125/EC relating to ecodesign requirements for energy-related products (ErP), (4) 1999/5/EC related to Radio and Telecommunications Terminal Equipment (R&TTE)

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Model	X50V4	X50V5 Series	X50V6U3 Series
Processor	Intel ULV processor Code name: Haswell-U 22 nm, 15 W TDP	Intel ULV processor Code name: Skylake-U 14 nm, 15 W TDP	Intel ULV processor Code name: Kaby Lake-U 14 nm, 15 W TDP
SKUs	X50V4: Celeron 2957U	50V4: Celeron 2957U X50V5: Celeron 3855U X50V5U3: Core i3-6100U	
Operation System Support	Windows 7 – 64-bit Windows 8.1 – 64-bit Windows 10 – 64-bit Linux – 64-bit	Windows 7 – 64-bit Windows 8.1 – 64-bit Windows 10 – 64-bit Linux – 64-bit	Windows 10 – 64-bit Linux – 64-bit
SSD Card Support	mSATA	M.2-2280BM (PCIe x4, SATA)	M.2-2280BM (PCIe x4, SATA)
Memory Support	Max. 1x 8 GB DDR3L-1600 204-pin SO-DIMM	Max. 1x 16 GB DDR3L-1600 204-pin SO-DIMM	Max. 2x 16 GB DDR4-2133 260-pin SO-DIMM
Wired LAN	Realtek RTL8411 Gigabit LAN	Intel i219LM Gigabit LAN	Intel i211 Gigabit LAN
Wireless LAN	Realtek RTL8188EE IEEE 802.11n Internal antenna	Realtek RTL8821AE IEEE 802.11ac + BT 2x internal antenna	Realtek RTL8188EE IEEE 802.11n Internal antenna
Power adapter	65 W / 19 V	65 W / 19 V (supports 60 W / 12 V)	65 W / 19 V (supports 60 W / 12 V)
ТРМ	-	Firmware TPM v2.0 (since 2016-09-13)	Firmware TPM v2.0



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Shuttle XPC all-in-one X50V6 Series – Product Comparison

Model	X50V6	X5060XA	POS X506	X5060TA	X5060PA
Туре	Barebone	System without Operation System	System without Operation System with COM ports	System with Windows 10 Home	System with Windows 10 IoT
EAN Black	887993000701	4046047103249	4046047103263	4046047103232	4046047103317
EAN White	887993001227	4046047103256	4046047103270	not available	not available
RAM		4 GB DDR4	4 GB DDR4	4 GB DDR4	4 GB DDR4
HDD/SSD		500 GB HDD	60 GB SSD	500 GB HDD	120 GB M.2 NVMe
COM ports			Ja (PCL71)		
Operation System				Windows 10 Home (64-bit)	Windows 10 IoT Enterprise Value

Based on X50V6 (Celeron 3865U processor):

Based on X50V6U3 (Core i3-7100U processor):

Model	X50V6U3	X5063XA	X5063TA
Туре	Barebone	System without Operation System	System with Windows 10 Pro
EAN Black	887993001074	4046047103331	4046047103324
EAN White	887993001098	not available	not available
RAM		8 GB DDR4	8 GB DDR4
HDD/SSD		120 GB M.2 NVMe	120 GB M.2 NVMe
COM ports			
Operation System			Windows 10 Pro (64-bit)



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