Fanless All-in-one PC for POS applications

The Shuttle POS X507 is a valued All-in-One POS Terminal PC boasting a 15.6-inch touchscreen. It is equipped with Intel Celeron® ULV Processor, 120 GB SSD and 4 GB RAM. This system is suitable for small and medium retailers to serve customers effectively. It offers numerous connectors for typical POS peripherals - two COM ports are also available. In addition, the HDMI and VGA ports can be used to drive two more displays with basic digital signage applications. Thanks to its passive cooling, the system is virtually noiseless, maintenance-free and is approved for 24/7 nonstop operation. Particularly suitable for POS 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. POS X507 offers a high level of reliability and is a lower priced alternative to conventional POS systems.

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 UHD 610 graphics HDMI 1.4a + D-Sub/VGA Video output
CPU & Cooling	 Intel Celeron 4205U, 1.8 GHz, 15 W TDP Fanless heatpipe cooling system
Storage	 4 GB DDR4-2400 SO-DIMM memor 120 GB SSD drive (2.5" SATA) Supports one M.2-2280 SSD drive 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 1.4a, D-Sub/VGA 4x USB 3.2 Gen 1 (5 Gbps), 2x USB 2.0, 2x COM (RS232), 1x LPT (Parallel), internal: 1x USB 2.0 Type A Microphone input, headphones output Gigabit LAN, Wireless LAN 802.11ac, BT 4.2 Optional: 4x RS232, 1x LPT, 1x RJ11
Built-in	 SD card reader, 2x 2 W speakers 2.0 Megapixel HD webcam Electret Condenser Microphone
Power Supply	• External fanless power adapter, 65 W
Warranty	• 24 months Bring-in Service

Feature Highlights

XPC all-in-one System POS X507 White





Images for illustration purposes only.







15 6" Touchscreen

Nonstop operating

Fanless cooling



dust & water

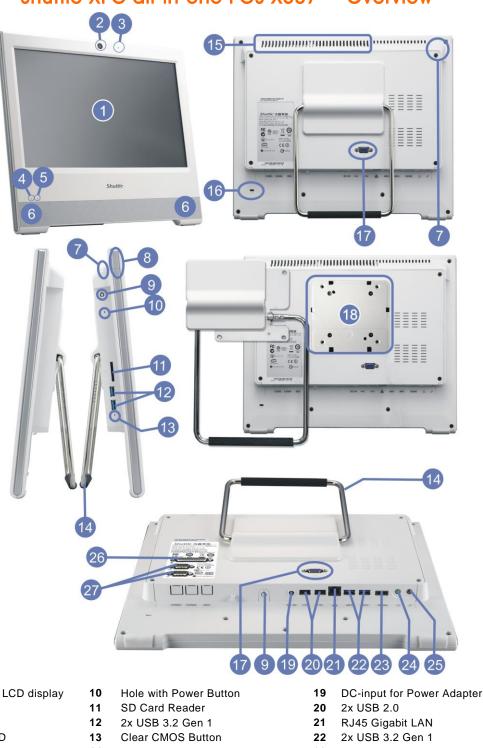






Supports Windows 10 & Linux (64-bit)





Shuttle XPC all-in-one POS X507 - Overview

- Touchscreen LCD display
- 2 Webcam

1

- 3 Microphone
- 4 Power on LED
- 5 Hard disk LED
- 6 Stereo speakers
- 7 Stylus with holder
- 8 Power-on button
- 9 2x Perforation for optional WLAN/LTE antenna
- 14 Stand (handle)
- 15 Ventilation holes
- 16 Kensington lock 17
- D-Sub/VGA Video Output 18
 - Vesa Mount 100x100mm

- 23 HDMI Video Output
- 24 Audio Line-out (headphones)
- 25 Microphone Input
- 26 LPT (Parallel Port)
- 27 2x COM (RS232)

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Shuttle XPC all-in-one POS X507 – 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.



Great connectivity

Equipped with six USB ports and two COM ports if offers sufficient connectivity for typical POS peripherals like receipt printer, customer display, barcode scanner, cash drawer, keyboard, mouse and more.



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 POS X507 is officially approved for 24/7 permanent operation. Thanks to its low power consumption and completely passive cooling, this PC runs highly reliably making it perfectly suitable for digital signage and POI/POS applications.

Conditions for permanent use:

- Free circulation of air amongst the PC must be guaranteed
- Ventilation holes must be kept clear

Fanless and quiet

The Shuttle XPC all-in-one POS X507 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 POS X507 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 POS X507 and there are three displays showing different content.

Protection Class IP54

The front panel of the Shuttle XPC all-in-one POS X507 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.



Optimised Cable Management

Optional COM, LPT, DIO ports

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

The Shuttle XPC all-in-one POS X507 features two serial COM ports (RS232) and one parallel LPT port. COM ports are still commonly used

for applications such as industrial automation systems, scientific

analysis, POS systems and other industrial applications.

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



Aptio Setup Utility - Copyr d Power on after Power fail

[Enabled]

[Enabled]

[Power Off]

[Disabled]

[Disabled]

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.

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Advanced

Wake Up By USB (S3)

PowerOn by RTC Alarm

Power-On after Power-Fail

EuP Function

Wake Up by LAN



Hidden Power Button

Left photo: The power button can be deactivated to prevent unauthorised use. Just disconnect the appropriate cable from its header inside the chassis (see red circle). <u>Right photo:</u> The power button can still be pressed using a straightened paper clip.



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 XPC all-in-one POS X507 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 on 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 so that it can also be used as a handle making the Shuttle XPC all-in-one POS X507 easy to carry.

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Shuttle XPC all-in-one POS X507 – Range of Applications

Digital Signage Visual advertising, Info Terminal



Call System e.g. for nurses (hospital) or security personnel



Device Control e.g. for health services or fitness equipment



On a boat e.g. for navigation and entertainment



POS Checkout system in Retail Stores, Restaurants, Hotels



Smart Home Control Surveillance, Home Automation



Communication Device e.g. for the elderly



Data Collector e.g. Recording of working hours



POS Radio Playing advertising and music



Device Control e.g. for copy machines

Visualisation e.g. for industrial production machines



Entertainment e.g. at the dentist or in the waiting room



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Shuttle XPC all-in-one POS X507 – 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
Operating 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 built-in touchscreen
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 Celeron 4205U (ULV) System-on-a-chip architecture (SoC) with integrated memory and graphics controller: no chipset required FCBGA1528 package - directly soldered onto the mainboard Code name: Whiskey Lake-U (8th Generation Intel Core) Cores / Threads: 2 / 2 Clock rate: 1.8 GHz L1/L2/L3 Cache: 128 kB / 512 kB / 2048 kB TDP wattage: 15 W maximum Manufacturing process: 3rd-generation enhanced 14nm++ Maximum Tjunction Temperature: 100 °C Supports 64-bit, VT-x (EPT), VT-d, Enhanced SpeedStep, NX bit, AES-NI, SSE 4.1/4.2

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Integrated Graphics	Intel UHD Graphics 610 GPU clock frequency: 300~900 MHz Execution Units (EUs): 12 Supports DirectX 12 Supports full H264, H265 8/10 bit, VP8/9, VC-1, AVC hardware decoding Supports Quick Sync Video and Clear Video HD technology
Up to three displays	 Two video ports support two additional independent screens: 1) HDMI 1.4a supports 1920 x 1080 @ 60 Hz or 3840 x 2160 @ 30 Hz 2) VGA / D-Sub analog video supports 1920 x 1080 @ 60 Hz Special conditions for operation in Multi-Monitor mode: 1) Clone mode: all displays show the same content at 1366 x 768 resolution 2) Extended mode: all displays show different content
BIOS	AMI BIOS in 8 MByte EEPROM with SPI interface Supports Power fail resume / always on Supports Wake-on-LAN (WOL) from S3, S4, S5 ACPI states Supports hardware monitoring and watch dog functionality Supports Firmware TPM v2.0 functionality
Memory	4 GB DDR4-2400 (PC4-19200) SDRAM at 1.2 V SO-DIMM format with 260 pins Supports a maximum of 32 GB per DIMM Maximum total size: 64 GB
SSD-Drive	120 GB SATA SSD drive in 6.35 cm / 2.5" format The SATA 3.0 interface supports up to 600MB/s data transfer speed (6 Gbit/s)
M.2-2280 Slot	The M.2 2280 BM slot provides the following interfaces: - PCI-Express Gen. 2.0 X4 with up to 16 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 Reader	Integrated card reader supports SD, SDHC and SDXC memory flash cards
Webcam	Integrated 2.0 Megapixel (1600 x 1200) HD webcam
Microphone Speakers	Front panel with integrated Electret Condenser Microphone and 2x 2W speakers
Audio	Realtek ALC269 Audio Codec Two analog audio connectors (3.5 mm) on the bottom side: 1) Line-out (headphones) 2) Microphone input Digital Audio is supported via HDMI.

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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 \$3, \$4 modes Supports network boot by Preboot eXecution Environment (PXE)
Wireless Network	Built-in M.2-2230-A/E WLAN card with connectors for two external antennas WLAN Controller Realtek RTL8821AE Supports WiFi IEEE 802.11b/g/n/ac on the 2.4 / 5 GHz band, 1T1R Supports 20 / 40 / 80 MHz channel bandwidth Security: supports WPA(-PSK), WPA2(-PSK), WEP 64/128 bit, IEEE 802.11x, IEEE 802.11i Supports Bluetooth 4.0 on the 2.4 GHz band
Front LEDs	Power LED (blue) Hard disk LED (orange)
Connectors left side	Power button 2x USB 3.2 Gen 1 (5 Gbps) SD card reader Hole with power button Hole with Clear CMOS button Perforation for optional WLAN/LTE antenna (diameter: 6.5 mm)
Connectors bottom side	HDMI 1.4a (supports digital video and digital audio) 2x USB 3.2 Gen 1 (5 Gbps) 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 WLAN/LTE antenna (diameter: 6.5 mm)
Connectors rear side	VGA connector (D-Sub 15 pol., analog video) 2x COM/serial (D-Sub) 1x LPT/parallel
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
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) Note: The POS X507 also supports a 60 W power adapter with 12 V DC output voltage
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
Environ- mental criteria	Operating temperature: 0~40 °C Humidity: 10~90 %, non-condensing
Certification and Compliance	EMI: CE, FCC, BSMI Safety: CB, BSMI, ETL 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 directives: (1) 2014/30/EU relating to electromagnetic compatibility (EMC), (2) 2014/35/EU 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) 2014/53/EU Radio Equipment Directive (RED)

X50V7 Series Product Overview

Product	Туре	Processor	RAM	Storage	COM/LPT	OS	Bar code
X50V7 Black	Barebone	Intel Celeron 4205U	_		_	_	887993002149
X50V7 White	Barebone	Intel Celeron 4205U	—	—	—	—	887993002156
X50V7U3 Black	Barebone	Intel Core i3-8145U	—	—	—	—	887993002163
X50V7U3 White	Barebone	Intel Core i3-8145U	—	—	—	—	887993002170
X5070XA Black	System	Intel Celeron 4205U	4 GB	500 GB HDD	—	—	4046047103584
X5070XA White	System	Intel Celeron 4205U	4 GB	500 GB HDD	—	—	4046047103577
POS X507 Black	System	Intel Celeron 4205U	4 GB	120 GB SSD	2x COM + LPT	_	4046047103591
POS X507 White	System	Intel Celeron 4205U	4 GB	120 GB SSD	2x COM + LPT	_	4046047103560
X5073XA Black	System	Intel Core i3-8145U	8 GB	120 GB SSD	—	_	4046047103546
X5073TA Black	System	Intel Core i3-8145U	8 GB	120 GB SSD	_	Windows 10 Pro	4046047103553

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