## **SYSTEM** XPC all-in-one IOT P5200PA Black AIN-PC. 4 GB RAM. 120 GB SSD, Windows 10 IoT





**COMMON FEATURES** 

**DISPLAY & GRAPHICS** 

**OPERATING SYSTEM** 

**STORAGE AND M.2 SLOTS** 

PROCESSOR

MULTI TOUCH





■ IP54 compliant front panel ■ Dimensions: 394 x 273 x 40 mm (WHD)

■ Supports 24/7 Nonstop Operation ■ 100 mm VESA mount capable

■ 39.6 cm (15.6") LC Display, 1920x1080 pixel ■ Capacitive 10-point multi-touch ■ Integrated Intel UHD graphics ■ HDMI 1.4 & VGA

■ Operating temperature: 0~40 °C ■ Fanless cooling system

■ Intel Celeron 5205U ■ "Comet Lake-U" Dual Core, TDP: 15W

SSD: 120 GB SSD card in M.2-2280 format supports PCIe/NVMe ■ 2.5" bay supports SATA hard disk or SSD in 2.5" format, max. 9.5 mm ■ M.2-2230E slot for WLAN module (2x internal antenna pre-installed)



120 GB DDR4 RAM NVMe SSD

M.2

2.5" BAY



କ୍ରେଲ୍ଲାବ କ୍ରେଲ୍ଲାଚ 📋

15.6" ALL-IN-ONE PC

FOR POS. POI AND KIOSK APPLICATIONS

splashing of water according to IP protection class 54 .

The Shuttle XPC All-in-One-System IoT P5200PA comes with a capacitive 15.6" multi-touchscreen and Full-HD resolution. An Intel Ultra-Low-Voltage (ULV) processor makes for high computing power while it keeps energy consumption at a

a clean, tidy appearance. The front panel is dust-protected and protected from

low level. Thanks to its passive cooling, the system is virtually noiseless, maintenance-free and approved for 24/7 nonstop operation. The arrangement of connectors at the bottom leads to an effective cable management making for

> IP5/ FRONT





IoT Enterprse

• •

#### CONNECTIVITY

■ HDMI 1.4 ■ D-Sub/VGA ■ 4x USB 3.2 Gen 1 ■ 2x USB 2.0

- internal: 1x USB 2.0 (Type A) Gigabit LAN (Intel)
- 2x RS232 COM ports 2x Audio (for microphone & headphones)

#### **BUILT-IN**

■ SD card reader ■ 2.0 Megapixel FHD webcam ■ 2x 2 W speakers ■ Electret Condenser Microphone ■ 2x internal WLAN antennas (without WLAN module)

40

Max

40 °C

#### **POWER SUPPLY**

External 65W / 19V power adapter

#### **OPTIONAL ACCESSORIES**

■ Two additionally RS232 COM ports (1x PCP21 or 2x PCP11) ■ WLAN kit with two external antennas (WLN-M (ac)/WLN-M1 (ax))



## MODELS OF THE P5211 SERIES

■ Windows 10 IoT Enterprise Entry (64-bit)

RAM: 4 GB DDR4-2666 SO-DIMM memory

Туре	Product	Colors	Intel ULV CPU	RAM	SSD	Operation System	Bar Code
Barebone	<b>P</b> 52 <b>U</b>	Black	Celeron 5205U	-	-	-	887993005768
	P52U3	Black	Core i3-10110U	-	-	-	887993005782
System	P0S P520	Black	Celeron 5205U	4 GB	120 GB M.2 (NVMe)	-	4046047103836
	IoT P5200PA	<mark>Black</mark>	Celeron 5205U	<mark>4 GB</mark>	<mark>120 GB M.2 (NVMe)</mark>	Windows 10 IoT Enterprise Entry	<mark>4046047103843</mark>

# Shuttle®

# PRODUCT SPECIFICATIONS

### **PRODUCT FEATURES**





All applications at your fingertips - 10-point multi-touch The innovative touchscreen technology delivers the simplest operation possible and makes the screen the centre of action. Its high-quality design gives you access to all capabilities of the PC - by just touching the screen.

**24/7 nonstop operation** The Shuttle XPC all-in-one IoT P5200PA 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 40 °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



Fanless and quiet The Shuttle XPC all-in-one IoT P5200PA uses a passive thermal module to lead heat out of the case quickly and evenly. The unique fanless design makes it perfect to be used in noise-sensitive environments. 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 mainte-

nance-free.









Protection Class IP54 The front panel of the Shuttle XPC all-in-one IoT P5200PA 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** 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.

### Connects up to two external

Full HD displays The Shuttle XPC all-in-one IoT P5200PA features two video outputs: One analog D-Sub/VGA connector and one HDMI connector. Two separate Full HD displays can be connected in extended mode. Now add the built-in display of the IoT P5200PA and there are three displays showing different content.

#### 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.

\*) VESA mount is not included



## **PRODUCT SPECIFICATIONS**

#### **Front and Back Panel**



- 1. 2x Perforation for external antenna
- 2. 2x speakers (stereo)
- 3. Optional: 2x COM ports (Sub-D)
- 4. Hole for Kensington lock
- 5. Stand
- (a) Stand mounting plate (b) VESA cover (c) 100 x 100 mm VESA mount
- 6. Microphone
- 7. Full HD Webcam

- 8. LED indicates Webcam activity
- 9. Touchscreen LCD display
- 10. Power button
- 11. SD card reader
- 12. 2x USB 3.2 Gen 1 (5 Gbps, blue)
- 13. Hole with Clear CMOS button
- 14. Power LED
- 15. Hard disk LED
- 16. Battery LED (reserved no function) 17. 2x COM ports (Sub-D)
- 18. D-Sub/VGA video output
- 19. DC-input for power adapter
- 20. 2x USB 2.0 (black)
- 21. RJ45 Gigabit LAN port
- 22. 2x USB 3.2 Gen 1 (5 Gbps, blue)
- 23. HDMI video output
- 24. Audio Line-out (headphones)
- 25. Microphone input
- 26. Rubber feet



## Product Comparison: Shuttle XPC All-in-One Models

Chassis	<b>Display</b> Size / Pixel / Type	Processor Type	Product Name by Intel processor-generations			Chassis
			Gen. 7	Gen. 8	Gen. 10	Colour
	<b>11.6″</b> 1366 x 768 Capacitive Multitouch	Celeron	P20U	_	P22U	Black
	<b>15.6"</b> 1366 x 768 Resistive Singletouch	Celeron	X50V6	<b>X50V7</b> X50V7L *)	X50V8	Black, White
		Core i3	X50V6U3	<b>X50V7U3</b> X50V7U3L *)	X50V8U3	Black, White
	<b>15.6"</b> 1920 x 1080 Capacitive Multitouch	Celeron	_	P51U	P52U	Black
		Core i3	_	P51U3	P52U3	Black
	<b>19.5″</b> 1600 x 900 Capacitive Multitouch	Celeron	P90U	_	P92U	Black, White
		Core i3	P90U3	_	P92U3	Black, White
		Core i5	P90U5	—	P92U5	Black

X50V7L and X50V7U3L are model variants without WLAN module

### SHUTTLE XPC all-in-one System IoT P5200PA - SPECIFICATIONS

FANLESS AND SILENT	Passive heatpipe cooling, absolutely no fan noise Perfect for 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: black Dimensions: 393.6 x 272.5 x 39.8 mm (W x H x D) 100 mm VESA mountable Hole for Kensington lock Weight: 3.25 kg net, 4.5 kg gross
OPERATING SYSTEM	Windows 10 IoT Enterprise Entry 64-Bit It is compatible with Windows 10/11 and Linux
TOUCHSCREEN	Touchscreen function supports fingertip input Capacitive Touch Panel with 10-point multi-touch Supports touch input with gloves made of PVC, cotton, cotton/linen - max. 0.4 mm thick Stylus pen not supported
15.6" DISPLAY	39.6 cm / 15.6" LC display, IPS technology Ratio: 16:9 wide-screen panel Native resolution: 1920 x 1080 = 2 Megapixel (Full HD / 1080p) Brightness: 250 cd/sqm
PROCESSOR	Model: Intel Celeron 5205U (ULV) System-on-a-chip architecture (SoC): no chipset required FCBGA1528 package - directly soldered onto the mainboard Code name: Comet Lake-U (10th Generation Intel Core) Cores / Threads: 2 / 2 Clock rate: 1.9 GHz L1/L2/L3 Cache: 256 kB / 1 MB / 2 MB Memory controller: DDR4-2400 Dual Channel (1.2 V) TDP wattage: 15 W maximum Manufacturing process: 14 nm Maximum Tjunction Temperature: 100 °C Supports 64-bit, VT-x (EPT), VT-d, Enhanced SpeedStep, NX bit, AES-NI, SSE 4.1/4.2
INTEGRATED GRAPHICS	Intel HD 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
SUPPORTS TRIPLE DISPLAY	Supports up to three displays simultaneously Two video ports support two additional independent screens: 1) HDMI 1.4b supports 1920 x 1080 @ 60 Hz or 3840 x 2160 @ 30 Hz 2) VGA / D-Sub analog video supports 1920 x 1080 @ 60 Hz Multi-Monitoring modes as follow: Clone mode: All displays show the same content at 1920 x 1080. Extended mode: All displays show different content.
BIOS	AMI BIOS in 16 MByte EEPROM with SPI interface Supports Power-on-after-power-fail / always on Supports Wake-on-LAN (WOL) from S3, S4, S5 ACPI states Supports hardware monitoring and Watchdog function Supports Firmware TPM v2.0 function
MEMORY (RAM)	4 GB DDR4 SO-DIMM memory with 260 pins Supports a maximum of 2x 32 GB DDR4-2400/2666/3200 capacity

# Shuttle®

# PRODUCT SPECIFICATIONS

M.2 SSD CARD	120 GB SSD card in M.2-2280 format with PCI-Express interface and NVMe support
2.5" BAY FOR HDD/SSD	Supports 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 of data transfer speed (6 Gbit/s) Supports one drive with up to 9.5 mm in height SATA cable pre-installed
CARD READER	Integrated card reader supports SD, SDHC and SDXC memory flash cards
WEBCAM	Integrated Full-HD 2.0 Megapixel (1920 x 1080) camera
MICROPHONE AND Speakers	Front panel with integrated Electret Condenser Microphone and 2x 2 W speakers
INTEGRATED AUDIO	C-Media CM6542 (USB) or Realtek ALC269 (HD Audio) Two analog audio connectors (3.5 mm) on the bottom side: 1) Line-out (head-phones) 2) Microphone input Digital Audio is supported via HDMI.
WIRED NETWORK	Intel 219 Ethernet Controller 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)
M.2 SLOT FOR WLAN	M.2-2230E slot supports USB2.0, PCIe X1 and CNVi suitable for commonly available WLAN modules in M.2 format Two internal WLAN antennas for 2.4/5 GHz are already pre-installed. The chassis has two 7-mm perforations for optional external antennas.
FRONT LEDs	Power LED (blue) Hard disk LED (orange) Battery LED (red) – reserved, no function
CONNECTORS Left side	Power button 2x USB 3.2 Gen. 1 (max. 5 Gb/s, blue) SD card reader Hole with Clear CMOS button
CONNECTORS Right side	Optional: 2x COM/serial (D-Sub, RS232) Hole for the Kensington Lock
CONNECTORS Bottom Side	HDMI 1.4b (supports digital video and digital audio) VGA connector (D-Sub 15 pol., analog video) 2x USB 3.2 Gen. 1 (max. 5 Gb/s, blue) 2x USB 2.0 2x COM/serial (D-Sub, RS232) 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) 2x Perforation for optional WLAN/LTE antennas (diameter: 7 mm)
CONNECTORS Onboard	Internal USB 2.0 type A connector for a USB stick Serial ATA (6 Gbps) data/power combo connector 3x USB 2.0 header (all occupied) Microphone connector (2-pin, occupied) Speakers connector (4-pin, occupied) eDP connector (Embedded DisplayPort) - occupied by the display LPC connector (occupied) 12C connector for optional NFC accessory CMOS battery connector (2-pin occupied)
OPTIONAL ANTENNAS	The chassis features two perforated 7 mm holes for optional antennas mounted with an (RP-)SMA connector for wireless network such as WLAN or WWAN (e.g. LTE)
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

# Shuttle®

DC INPUT CONNECTOR	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%.
SUPPLIED Accessories	Quick Guide Driver DVD External Power Adapter (65W / 19V) Power cord (2 pins)
OPTIONAL Accessories	1) COM port adapter <b>PCP21</b> or <b>2x PCP11</b> provides two more serial COM ports on the right side 2) M.2 WLAN module with two external Antennas: <b>WLN-M</b> (802.11ac) or <b>WLN-M1</b> (802.11ax) Two internal WLAN antennas are already pre-installed and can be used instead of the external antennas.
ENVIRONMENTAL SPECIFICATIONS	Operating temperature: 0~40 °C Humidity: 10~90 %
CERTIFICATIONS / COMPLIANCE	<ul> <li>- EMI: CE, UKCA, FCC, RCM, VCCI, BSMI</li> <li>- Safety: CB 60950/62368, cTUVus, BSMI</li> <li>- Other compliances: RoHS, ErP Lot3, Energy Star</li> <li>This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office.</li> <li>The CE-mark approves the conformity by the EU directives:</li> <li>(1) 2014/30/EU relating to electromagnetic compatibility (EMC),</li> <li>(2) 2014/35/EU relating to Electrical Equipment designed for use within certain voltage limits (LVD),</li> <li>(3) 2009/125/EU relating to ecodesign requirements for energy-related products (ErP)</li> </ul>

© 2023 Shuttle® Computer Handels-GmbH - All information subject to change without notice. Optional components and accessories are not included. Pictures for illustration purposes only.