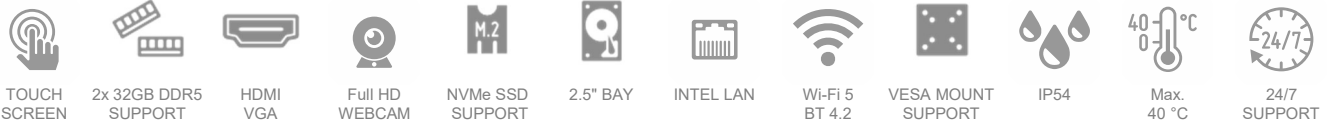


## BAREBONE XPC all-in-one X50V9 Black

With Intel Celeron ULV processor

### 15.6" ALL-IN-ONE PC FOR POS, POI AND KIOSK APPLICATIONS

The Shuttle XPC all-in-one X50V9 is the latest addition to the X50 Series and is powered by a Gen12/13 Intel ULV processor. The modern processor architecture helps improve on power consumption and computing power. The existing WLAN function can optionally be supplemented with a 4G/5G function with up to 4 antennas. Thanks to its passive heatpipe-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.



#### COMMON FEATURES

- IP54 compliant front panel ■ Dimensions: 391 x 327 x 42 mm (WHD)
- Supports 24/7 Nonstop Operation ■ 100 mm VESA mount capable
- Operating temperature: 0~40 °C ■ Fanless heatpipe cooling system

#### DISPLAY & GRAPHICS

- 39.6 cm (15.6") LC Display, 1366 x 768 pixel resolution ■ Resistive touchscreen ■ Integrated Intel UHD graphics ■ HDMI 2.0b & VGA

#### OPERATING SYSTEM

- An operating system is not included
- Supports Windows 10/11 (64-bit) and Linux (64-bit)

#### PROCESSOR

- Intel Celeron 7305 SoC, 1x P-Core, 4x E-Core, 8 MB Cache
- Intel Generation 12 "Alder Lake-U" TDP: 15W

#### STORAGE (not included)

- Supports max. 2x 32 GB DDR5-4800 SO-DIMM RAM
- First M.2-2280 slot supports one SSD card (PCIe X4/ NVMe or SATA)
- Second M.2-2280 slot supports one SSD card (SATA) or one optional 4G/5G module ■ Supports one 2.5" SATA drive (hard disk or SSD)
- Supports internal USB stick (USB 2.0, type A)

#### CONNECTIVITY

- HDMI 2.0b ■ D-Sub/VGA ■ 2x USB 3.2 Gen 2 (max. 10 Mbps, red)
- 4x USB 3.2 Gen 1 (max. 5 Mbps, blue) ■ internal: 1x USB 2.0 (Type A)
- Gigabit LAN (Intel) ■ 2x Audio (Mic & headphones) ■ Power button
- Clear CMOS button ■ Power LED and HDD LED ■ DC Input

#### BUILT-IN

- 2.0 Megapixel FHD webcam ■ Electret Condenser Microphone
- 2x 2 W speakers ■ Wi-Fi 5 Wireless Network with two internal Antennas (supports WLAN 802.11ac and Bluetooth 4.2)

#### POWER SUPPLY

- External 90 W / 19 V power adapter (DC-in supports 12 or 19 V)

#### OPTIONAL ACCESSORIES

- **WLN-M1:** WLAN upgrade kit (Intel AX200 card supports 802.11ax with two external antennas)
- **WWNO4:** 4G/5G kit with four external antennas supports one WAN card and one Nano SIM card
- **1x PCP21 or 2x PCP11:** two adapters provide two serial COM ports (1x RS232, 1x RS232/422/485) on the bottom side



#### MODELS OF THE X50V9 SERIES

Product	Intel ULV CPU	P-Cores		E-Cores		Cache	Max. RAM Support	Color	UPC Code
		Cores / Threads	Clock / Turbo	Cores / Threads	Clock / Turbo				
<b>X50V9</b>	Celeron 7305 (Gen 12)	1 / 1	1.1 / – GHz	4 / 4	0.9 / – GHz	8 MB	2x 32 GB DDR5-4800	Black White	<b>887993006802</b> 887993006819
<b>X50V9U3</b>	Core i3-1315U (Gen 13)	2 / 4	1.2 / 4.5 GHz	4 / 4	1.2 / 4.5 GHz	10 MB	2x 32 GB DDR5-5200	Black White	887993006215 887993006222

## 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.



### 24/7 nonstop operation

The Shuttle XPC all-in-one X50V9 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
- 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 X50V9 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 maintenance-free.



### Protection Class IP54

The front panel of the Shuttle XPC all-in-one X50V9 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 power button and two USB ports.



### Connects up to two displays

The Shuttle XPC all-in-one X50V9 features two video outputs: one analog D-Sub/VGA connector and one HDMI 2.0b connector, which even supports UHD/4K resolution. Two separate displays can be connected in extended mode. Now add the built-in display of the X50V9 and there are three displays showing different content.



### Hidden Power Button

The power button can be deactivated by Jumper JP1 to prevent unauthorised use.

Still, it can be used with a straightened paper clip (see photo).

A hidden Clear CMOS is also available in order to reset the BIOS settings.



### 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



### Black and White versions available

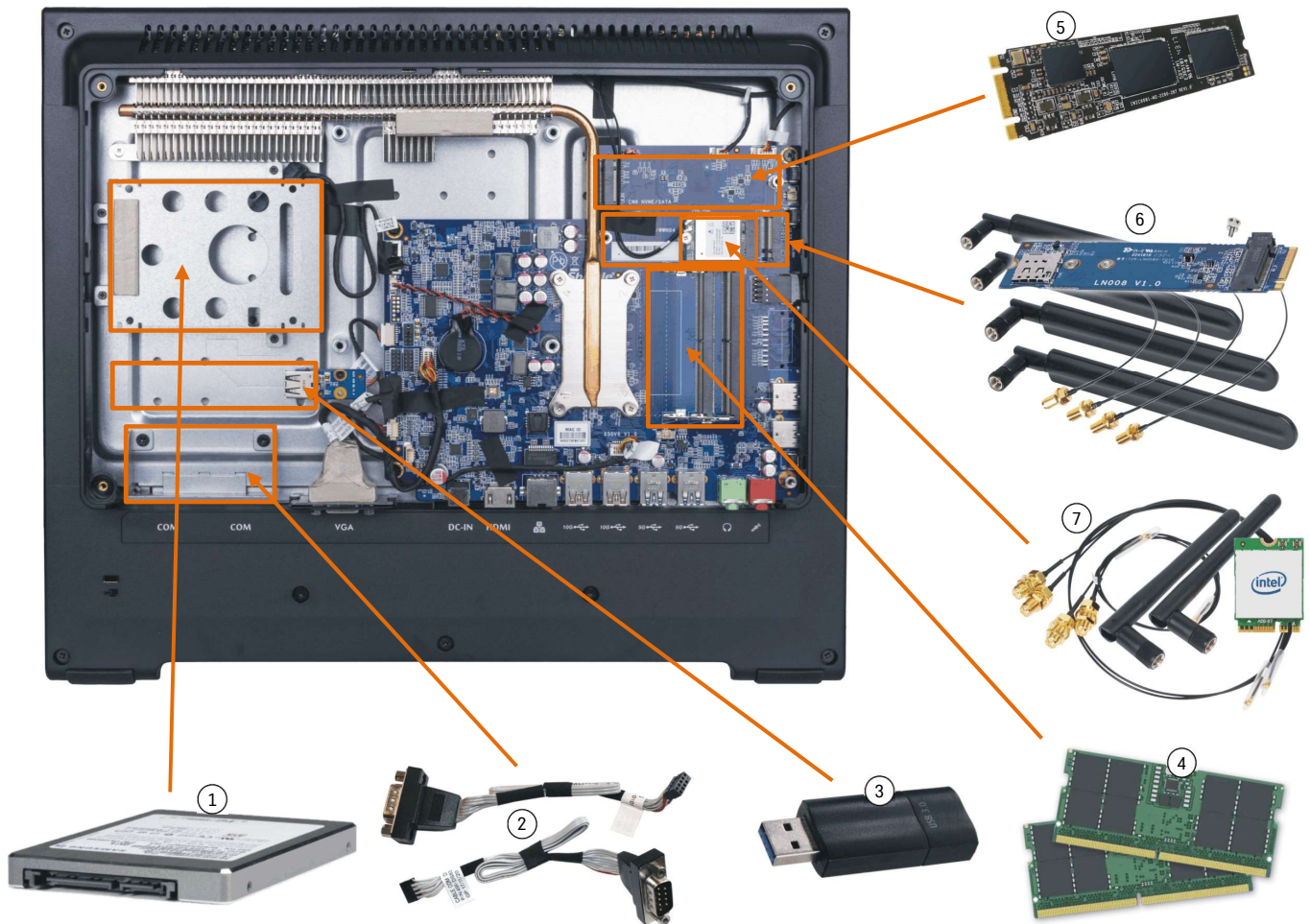
Choose the right colour for your application. As a rule, black is preferred for use in the office, as a POS system in retail or as a control unit in manufacturing. The white version is often used in the health sector, in the kitchen area or as a POS system in the cosmetics/massage studio.

## Front and Back Panel



- |   |                                       |                                     |
|---|---------------------------------------|-------------------------------------|
| 1. Stand                                | 8. Power button                       | 18. D-Sub/VGA video output          |
| (a) Stand mounting plate                | 9. Hole for hidden power button       | 19. DC-input for power adapter      |
| (b) VESA cover                          | 10. 4x USB 3.2 Gen 1 (5 Gbps, blue)   | 20. HDMI 2.0b video output          |
| (c) 100 x 100 mm VESA mount             | 11. Hole for hidden Clear CMOS button | 21. RJ45 network port (LAN)         |
| 2. 4x Perforation for external antennas | 12. Power LED                         | 22. 2x USB 3.2 Gen 2 (10 Gbps, red) |
| 3. Full HD Webcam                       | 13. Hard disk LED                     | 23. Audio Line-out (headphones)     |
| 4. Microphone                           | 14. Openings for ventilation          | 24. Microphone input                |
| 5. Touchscreen LC-display               | 15. Name plate (rating label)         |                                     |
| 6. 2x speakers (stereo)                 | 16. Hole for Kensington lock          |                                     |
| 7. Stylus with holder                   | 17. 2x D-Sub COM port (optional)      |                                     |

## Installable Components



1. **2.5" SATA Drive**  
Hard disk or SSD, max. 9.5 mm in height
2. **Two COM Ports (Serial Interface)**  
With the Shuttle Accessory **PCP21** (or two **PCP11**) you can install two serial COM ports (1x RS232 and 1x RS232/422/485)
3. **Internal USB Port**  
Internal USB 2.0 Type A connector for expansion sticks such as flash memory or LTE. Max. 100 mm in length.
4. **DDR5 SO-DIMM memory**  
max. 2x 32 GB DDR5-4800 or higher clock rate
5. **M.2-2280 SSD Card**  
supports SSD cards with SATA or PCIe interface
6. **Second M.2-2280 Device**  
This second M.2 slot supports a second SSD card (SATA only) or the Shuttle Accessory **WWNO4** for 4G/5G mobile network (you still need the 4G/5G card and a Nano SIM card)
7. **WLAN Upgrade**  
An 802.11ac (1T1R) WLAN function with internal antennas is already pre-installed. With the Shuttle Accessory **WLN-M1** it can be upgraded to 802.11ax (2T2R) with two external antennas.

## Range of Applications (Examples)

**Digital Signage**  
Visual advertising,  
Info Terminal



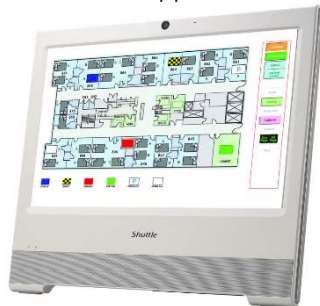
**POS**  
Checkout system in Retail Stores,  
Restaurants, Hotels



**POS Radio**  
Playing advertising  
and music



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



**Smart Home Control**  
Surveillance,  
Home Automation



**Device Control**  
e.g. for copy  
machines



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



**Communication Device**  
e.g. for the elderly



**Visualisation**  
e.g. for industrial production machines



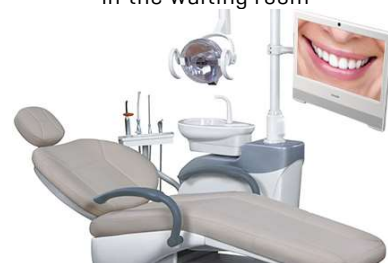
**On a boat**  
e.g. for navigation and entertainment



**Data Collector**  
e.g. Recording of  
working hours







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



## Shuttle Product Comparison: X50V9 versus predecessor X50V8

MODEL	X50V9 Series	X50V8 Series
Processor	Intel Core Gen 12/13, TDP=15W Code name: "Alder/Raptor Lake-U" <b>X50V9</b> : Celeron 7305 (Gen12) <b>X50V9U3</b> : Core i3-1315U (Gen13)	Intel Core Gen 10, TDP=15W Code name: "Comet Lake-U" <b>X50V8</b> : Celeron 5205U <b>X50V8U3</b> : Core i3-10110U
Operation System Support	Windows 10/11 – 64-bit Linux – 64-bit	Windows 10/11 – 64-bit Linux – 64-bit
RAM memory (max.)	Max. 2x 32 GB <b>DDR5-5200</b> SO-DIMM (Celeron version: DDR5-4800)	Max. 2x 32 GB DDR4-2666 SO-DIMM (Celeron version: DDR4-2400)
M.2 Slots for SSDs	<b>Two M.2-2280M slots</b> support 1x PCIe/NVMe or SATA SSDs 1x SATA SSD or WWN04 accessory	One M.2-2280M slot supports a PCIe/NVMe or SATA SSDs
LAN	Intel i219 Gigabit LAN	Intel i211/i219 Gigabit LAN
WLAN	Realtek RTL8821CE (WLAN-ac and BT 4.2) with two internal antennas	Realtek RTL8821CE (WLAN-ac and BT 4.2) with two internal antennas
Audio	Realtek ALC888S (HD audio)	Realtek ALC269 (HD audio) or C-Media CM6542 (USB)
Connectors left	Power Button Hole with hidden Power Button 2x USB 3.2 Gen 1 (5 Gbps, blue) <b>Hole with hidden Clear CMOS Button</b>	Power Button Hole with hidden Power Button 2x USB 3.2 Gen 1 (5 Gbps, blue) SD Card Reader
Connectors bottom	<b>HDMI 2.0b</b> <b>VGA Port</b> 2x USB 3.2 Gen 1 (5 Gbps, blue) <b>2x USB 3.2 Gen 2 (10 Gbps, red)</b> Gigabit LAN (RJ45) Audio Line-out Microphone input DC input (supports 12V or 19V) <b>Optional 2x COM (D-Sub)</b>	HDMI 1.4b 2x USB 3.2 Gen 1 (5 Gbps, blue) 2x USB 2.0 Gigabit LAN (RJ45) Audio Line-out Microphone input DC input (supports 12V or 19V) Optional 2x COM (RJ45), 1x DIO (RJ11)
Connectors rear	—	VGA Port Optional 2x COM (D-Sub), 1x LPT
Perforation for external antennas	<b>4x Perforation (7 mm)</b>	2x Perforation (7 mm)
Power Adapter	<b>90W/19V</b> power adapter 3-pin AC plug (Schuko with PE) DC-input supports 12V and 19V	65W/19V power adapter 3-pin AC plug (Schuko with PE) DC-input supports 12V and 19V
Optional Shuttle Accessories	<b>WLN-M1</b> - WLAN Upgrade Kit <b>WWN04</b> – 4G/5G kit for mobil network <b>PCP21</b> (or 2x <b>PCP11</b> ) - 2x COM	<b>WLN-M1</b> - WLAN Upgrade Kit <b>PCL71</b> (2x COM, 1x LPT) <b>POS01</b> - 4x COM, 1x LPT, 1x DIO)

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

Chassis	Display Size / Pixel / Type	Processor Type	Product Name by Intel processor-generations			Chassis Colour
			Gen. 8	Gen. 10	Gen. 12/13	
	<b>11.6"</b> 1366 x 768 Capacitive Multitouch	Celeron  (P25N: N-Series processor)	—	<b>P22U</b>	<b>P25N</b>	<b>Black</b>
	<b>15.6"</b> 1366 x 768 Resistive Singletouch	Celeron	<b>X50V7</b> X50V7L *)	<b>X50V8</b>	<b>X50V9</b>	<b>Black, White</b>
		Core i3	<b>X50V7U3</b> X50V7U3L *)	<b>X50V8U3</b>	<b>X50V9U3</b>	<b>Black, White</b>
	<b>15.6"</b> 1920 x 1080 Capacitive Multitouch	Celeron	<b>P51U</b>	<b>P52U</b>	<b>P55U</b>	<b>Black</b>
		Core i3	<b>P51U3</b>	<b>P52U3</b>	<b>P55U3</b>	<b>Black</b>
	<b>19.5"</b> 1600 x 900 Capacitive Multitouch	Celeron	—	<b>P92U</b>	—	<b>Black, White</b>
		Core i3	—	<b>P92U3</b>	—	<b>Black, White</b>
		Core i5	—	<b>P92U5</b>	—	<b>Black</b>

**X50V7L** and **X50V7U3L** are model variants without WLAN module

## SHUTTLE XPC all-in-one BAREBONE X50V9 Black – SPECIFICATIONS

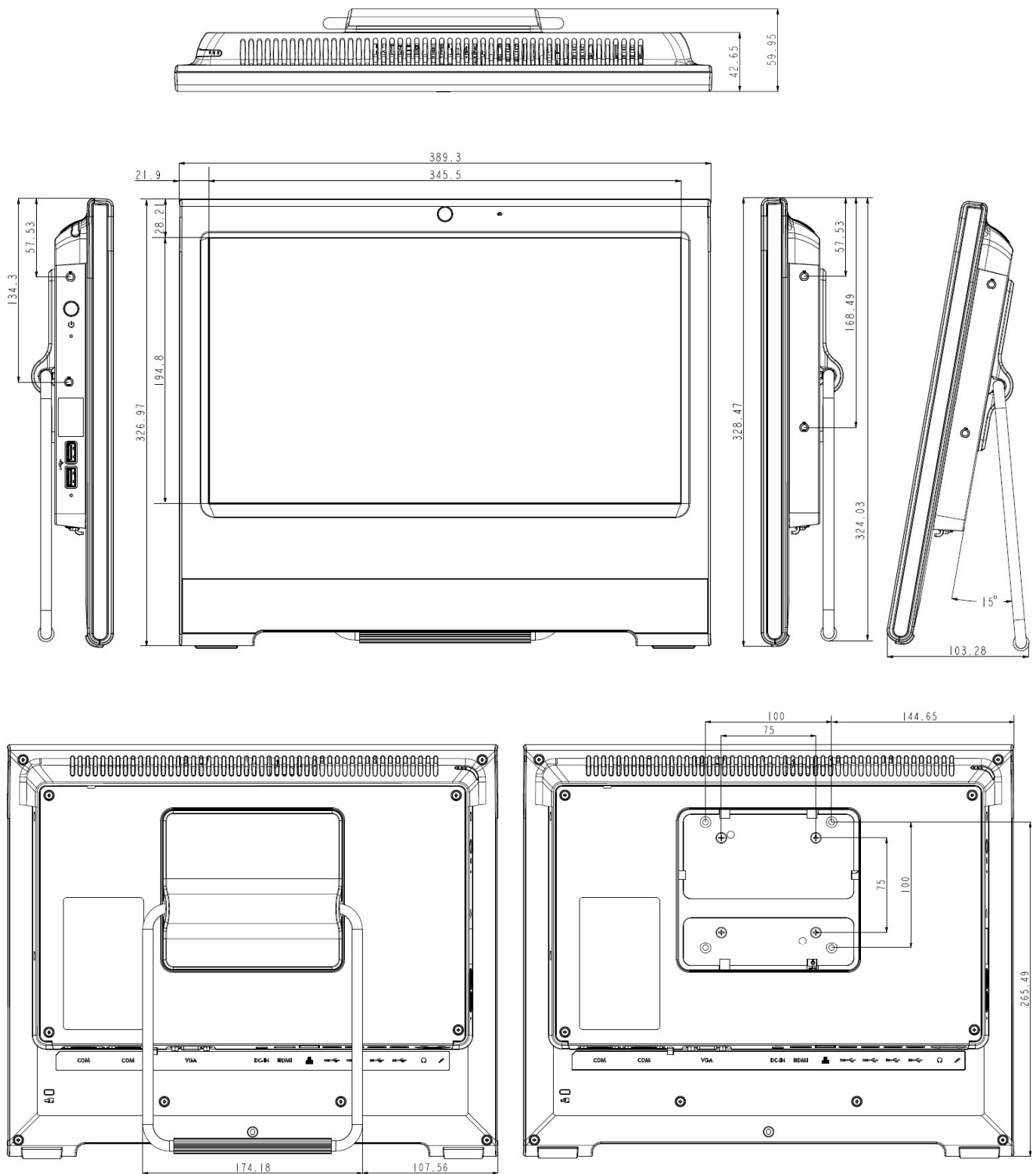
<b>FANLESS AND SILENT</b>	<p>Passive heatpipe cooling, no fan noise at all</p> <p>Perfect to be used in noise-sensitive environments</p> <p>Fanless, dust-free and thus virtually maintenance-free</p>
<b>24/7 NONSTOP OPERATION</b>	<p>This device is approved for 24/7 permanent operation.</p> <p>Requirements:</p> <ul style="list-style-type: none"> <li>- Free circulation of air amongst the PC must be guaranteed.</li> <li>- Ventilation holes must be kept clear.</li> <li>- If a hard disk is installed, this must also be approved for permanent operation by its manufacturer.</li> </ul>
<b>IP54 PROTECTED</b>	<p>The front panel is dust-protected and protected from splashing of water according to protection class IP54.</p>
<b>CHASSIS</b>	<p>Colour: black</p> <p>Dimensions: 391 x 327 x 42 mm (W x H x D)</p> <p>100mm VESA mount capable</p> <p>Mounting hole for Kensington lock</p> <p>Weight: 3.5 kg net, 4.2 kg gross</p>
<b>OPERATING SYSTEM</b>	<p>This system comes without operating system.</p> <p>It is compatible with:</p> <ul style="list-style-type: none"> <li>- Windows 10/11 - 64-bit</li> <li>- Linux - 64-bit</li> </ul>
<b>TOUCHSCREEN</b>	<p>Touchscreen function supports fingertip input</p> <p>Resistive 5-wire single-touch technology</p> <p>Stylus for the built-in touchscreen</p>
<b>15.6" DISPLAY</b>	<p>39.6 cm / 15.6" LC-display, ratio: 16:9 wide-screen panel</p> <p>Resolution: 1366 x 768 = 1.05 Megapixel</p> <p>Backlight unit: High power LED, Luminance: 220 cd/sqm</p> <p>Glass thickness: 3.2 mm</p>
<b>PROCESSOR</b>	<p>Model: Intel Celeron 7305</p> <p>Code name: Alder Lake-U (12th generation Intel Core)</p> <p>Performance-cores (P-Cores): 1 core (1 thread), clock rate: 1.1 GHz</p> <p>Efficient-cores (E-Cores): 4 cores (4 threads), clock rate: 0.9 GHz</p> <p>Smart-Cache (L3): 8 MB</p> <p>Base Power (PL1 TDP): max. 15 W</p> <p>Maximum Tjunction Temperature: 100 °C</p> <p>System-on-a-chip architecture (SoC) with integrated memory and graphics controller</p> <p>BGA1700 package - directly soldered onto the mainboard</p> <p>Lithography: Intel 7 process (10 nm Enhanced SuperFin)</p>
<b>INTEGRATED GRAPHICS</b>	<p>Intel UHD Graphics</p> <p>GPU clock frequency: max. 1100 MHz</p> <p>Execution Units (EUs): 48</p>
<b>SUPPORTS TRIPLE DISPLAY</b>	<p>Up to three displays simultaneously</p> <p>Two video ports support two additional independent screens:</p> <ol style="list-style-type: none"> <li>1) HDMI 2.0b digital audio/video port supports up to 3840 x 2160 pixels resolution at 60 Hz refresh rate (2160p60)</li> <li>2) VGA / D-Sub analog video port supports 1920 x 1080 pixels resolution at 60 Hz refresh rate (1080p60)</li> </ol> <p>Special conditions for operation in Multi-Monitor mode:</p> <ol style="list-style-type: none"> <li>1) Clone mode: all displays show the same content at 1366x768 resolution</li> <li>2) Extended mode: all displays show different content</li> </ol>
<b>BIOS</b>	<p>AMI BIOS in 32 MByte EEPROM with SPI interface</p> <p>Supports Power fail resume / always on</p> <p>Supports Wake-on-LAN (WOL) from S3, S4, S5 ACPI states</p> <p>Supports hardware monitoring and Watchdog functionality</p> <p>Supports Firmware TPM v2.0 functionality</p>



MEMORY SUPPORT	<p>2x SO-DIMM slot with 262 pins                  Supports DDR5-4800 (PC5-38400) SDRAM at 1.1 V                  Supports DDR5 memory modules with higher frequency rating                  Supports Dual Channel mode                  Supports a maximum of 32 GB per DIMM, maximum total size: 64 GB                  Supports two unbuffered DIMM modules (no ECC or registered)                  Two thermal pads for the RAM modules are included</p>															
2.5" BAY FOR HDD/SSD	<p>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 600MB/s data transfer speed (6 Gbit/s)                  Supports one drive with up to 9.5 mm in height                  SATA data/power cable pre-installed</p>															
TWO M.2 SLOTS FOR SSD CARDS	<p>This product features two M.2-2280 Key-M slots</p> <ul style="list-style-type: none"> <li>- it supports M.2 cards with a width of 22 mm and a length of 80 mm (type 2280)</li> <li>- one M.2 SSD card with PCIe/NVMe interface is supported</li> <li>- the second M.2 SSD card must have SATA interface</li> <li>- the second slot can also be used for the optional WWN04 kit to support a 4G/5G wireless network card</li> </ul> <p>The following configurations are supported:</p> <table border="1" data-bbox="352 775 1137 931"> <thead> <tr> <th>M.2 Slot</th> <th>Interfaces</th> <th>Config 1</th> <th>Config 2</th> <th>Config 3</th> </tr> </thead> <tbody> <tr> <td>Slot 1 CN6, above</td> <td>PCIe Gen4 x4 and SATA 3.0</td> <td>M.2 SSD card (SATA)</td> <td>M.2 SSD card (PCIe/NVMe)</td> <td>M.2 SSD card (SATA)</td> </tr> <tr> <td>Slot 2 CN5, below</td> <td>PCIe Gen4 x4 and USB 3.2 Gen2 *)</td> <td>M.2 SSD card (PCIe/NVMe)</td> <td>optional WWN04 kit</td> <td>optional WWN04 kit</td> </tr> </tbody> </table> <p>*) the USB 3.2 interface can only be used with the Shuttle Accessory WWN04                  Two thermal pads for the M.2 SSDs are included (size: 70 x 20 x 5.5 mm).</p>	M.2 Slot	Interfaces	Config 1	Config 2	Config 3	Slot 1 CN6, above	PCIe Gen4 x4 and SATA 3.0	M.2 SSD card (SATA)	M.2 SSD card (PCIe/NVMe)	M.2 SSD card (SATA)	Slot 2 CN5, below	PCIe Gen4 x4 and USB 3.2 Gen2 *)	M.2 SSD card (PCIe/NVMe)	optional WWN04 kit	optional WWN04 kit
M.2 Slot	Interfaces	Config 1	Config 2	Config 3												
Slot 1 CN6, above	PCIe Gen4 x4 and SATA 3.0	M.2 SSD card (SATA)	M.2 SSD card (PCIe/NVMe)	M.2 SSD card (SATA)												
Slot 2 CN5, below	PCIe Gen4 x4 and USB 3.2 Gen2 *)	M.2 SSD card (PCIe/NVMe)	optional WWN04 kit	optional WWN04 kit												
WEBCAM	<p>Integrated Full HD webcam (1920 x 1080 pixels)</p>															
MICROPHONE AND SPEAKERS	<p>Front panel with integrated Electret Condenser Microphone and                  2x 2 W speakers</p>															
INTEGRATED AUDIO	<p>Realtek ALC888S (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 the HDMI output.</p>															
WIRED NETWORK	<p>Intel i219 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)</p>															
WIRELESS NETWORK (WLAN)	<p>WLAN controller Card: Realtek RTL8821CE                  WLAN antennas: two internal antennas                  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 4.2 on the 2.4 GHz band                  The M.2-2230 Key A+E slot supports PCIe Gen3 x1, USB 2.0 und CNVi</p>															
FRONT LEDs	<p>Power LED (blue)                  HDD/SSD LED (orange)</p>															
CONNECTORS LEFT SIDE	<p>Power button                  Hole with hidden power button (onboard micro switch)                  Hole with hidden Clear CMOS button (onboard micro switch)                  2x USB 3.2 Gen 1 (max. 5 Gbps, blue)</p>															
CONNECTORS BOTTOM SIDE	<p>HDMI 2.0b (supports digital video and digital audio)                  VGA connector (D-Sub 15 pol., analog video)                  2x USB 3.2 Gen 2 (max. 10 Gbps, red)                  2x USB 3.2 Gen 1 (max. 5 Gbps, blue)                  Gigabit Network (LAN, RJ45, Intel i219)                  Audio Line-out / head-phones (3.5 mm jack)                  Microphone input (3.5 mm jack)                  DC input for external power adapter (5.5 / 2.5 mm)                  Optional: 2x COM/serial D-Sub (1x RS232, 1x RS232/422/485)</p>															

CONNECTORS ONBOARD	Internal USB 2.0 type A connector for a USB stick Serial ATA (6 Gbps) data/power connector 2x serial interfaces for optional COM ports (each 2x5-pin, 2 mm pitch) Other available connectors are occupied by integrated components.
OPTIONAL ANTENNAS	Opening holes for four optional antennas: The chassis features four perforated 6.5 mm holes for optional antennas mounted with an (RP-)SMA connector for wireless network such as WLAN or WWAN (e.g. 4G/5G) (see section "Optional Accessories")
POWER ADAPTER	External 90 W power adapter (fanless) Input: 100~240 V AC, 50/60 Hz, max. 1.6 A Output: 19 V DC, max. 4.74 A, max. 90 W DC cable length: ca. 170 cm AC cable length: ca. 170 cm (3-pin Micky MM C6 and Schuko earthed safety plug)
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	Multilingual Quick Guide Driver DVD for Windows External Power Adapter (90W / 19V) AC Power cord with protective-earth contacts 2x Thermal Pads for SSD M.2 cards: 70 x 20 x 5.25 mm 2x Thermal Pads for RAM modules: 50 x 15 x 2.25 mm and 70 x 20 x 4 mm 3x silver screws M3x4 for mounting M.2 SSD cards 4x black screws M3x4 for mounting a 2.5" SATA drive
OPTIONAL ACCESSORIES	<p><b>1) WLAN kit WLN-M1 (Intel AX200 card + two external antennas)</b> An 802.11ac (1T1R) WLAN function with internal antennas is already pre-installed and can be upgraded to 802.11ax (2T2R) with two external antennas with this kit.</p> <p><b>2) 4G/5G kit WWN04</b> This kit includes an adapter board for the lower M.2-2280 slot (CN5) and four external antennas. For data transmission in the mobile network, the these additional components are required - a 4G/LTE card in M.2-3042 format or a 5G card in M.2-3052 format - an activated nano SIM card</p> <p><b>3) COM port adapter 1x PCP21 or 2x PCP11</b> provides two serial COM ports (1x RS232, 1x RS232/422/485) on the bottom side</p>
ENVIRONMENTAL SPECIFICATIONS	Operating temperature: 0~40 °C Humidity: 10~90 %, non-condensing
CERTIFICATIONS / COMPLIANCE	EMI: CE, UKCA, FCC, BSMI, RCM, VCCI Safety: CB (IEC 60950/62368), cTUVus (UL 62368), BSMI Other compliances: RoHS, ErP Lot3, Energy Star v8.0
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 eco design requirements for energy-related products (ErP), (4) 2014/53/EU Radio Equipment Directive (RED)

## X50V9 Series – Technical Drawings



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