

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

The Shuttle XPC all-in-one X5073TA is a fully configured All-in-One system with Intel's Core i3-8145U processor and Windows 10 Pro OS. The modern Whiskey Lake-U processor 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

<b>All-in-One Design</b>	<ul style="list-style-type: none"> <li>• XPC all-in-one with touchscreen</li> <li>• Small: 391 x 327 x 42 mm (WHL)</li> <li>• Stand can also be used as a handle</li> <li>• 100 mm VESA mount capable</li> <li>• IP54 compliant front panel</li> <li>• Approved for 24/7 nonstop operation</li> </ul>
<b>Display &amp; Graphics</b>	<ul style="list-style-type: none"> <li>• 39.6 cm (15.6") resistive touchscreen with a 1366 x 768 resolution</li> <li>• Integrated Intel UHD 620 graphics</li> <li>• HDMI 1.4a + D-Sub/VGA Video output</li> </ul>
<b>CPU &amp; Cooling</b>	<ul style="list-style-type: none"> <li>• Intel Core i3-8145U, 2.1 GHz, 15 W TDP</li> <li>• Fanless heatpipe cooling system</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• 8 GB DDR4-2400 SO-DIMM memor</li> <li>• 120 GB M.2-2280 SSD card (NVMe)</li> <li>• Supports one 2.5" SATA hard disk / SSD</li> <li>• Supports internal USB stick (USB 2.0, type A)</li> </ul>
<b>Operating System</b>	<ul style="list-style-type: none"> <li>• Windows 10 Pro (64-bit)</li> </ul>
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>• HDMI 1.4a, D-Sub/VGA</li> <li>• 4x USB 3.2 Gen 1 (5 Gbps), 2x USB 2.0, internal: 1x USB 2.0 Type A</li> <li>• Microphone input, headphones output</li> <li>• Gigabit LAN, Wireless LAN 802.11ac, BT 4.2</li> <li>• Optional: 4x RS232, 1x LPT, 1x RJ11</li> </ul>
<b>Built-in</b>	<ul style="list-style-type: none"> <li>• SD card reader, 2x 2 W speakers</li> <li>• 2.0 Megapixel HD webcam</li> <li>• Electret Condenser Microphone</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• External fanless power adapter, 65 W</li> </ul>
<b>Warranty</b>	<ul style="list-style-type: none"> <li>• 24 months Bring-in Service</li> </ul>

### XPC all-in-one System X5073TA Black



Images for illustration purposes only.



15.6" Touchscreen



Nonstop operating



Fanless cooling



Front protected: dust & water



Wireless and Wired Network



Windows 10 Pro

Product	Type	Colour	Processor	RAM	M.2 SSD	OS
X50V7U3	Barebone	Black	Core i3-8145U	—	—	—
X5073XA	System	Black	Core i3-8145U	8 GB	120 GB	—
X5073TA	System	Black	Core i3-8145U	8 GB	120 GB	Windows 10 Pro



Shuttle XPC all-in-one X5073TA – Overview



- |  |                           |                                |
|--|---------------------------|--------------------------------|
| 1 Touchscreen LCD display                      | 10 Hole with Power Button | 19 DC-input for Power Adapter  |
| 2 Webcam                                       | 11 SD Card Reader         | 20 2x USB 2.0                  |
| 3 Microphone                                   | 12 2x USB 3.2 Gen 1       | 21 RJ45 Gigabit LAN            |
| 4 Power on LED                                 | 13 Clear CMOS Button      | 22 2x USB 3.2 Gen 1            |
| 5 Hard disk LED                                | 14 Stand (handle)         | 23 HDMI Video Output           |
| 6 Stereo speakers                              | 15 Ventilation holes      | 24 Audio Line-out (headphones) |
| 7 Stylus with holder                           | 16 Kensington lock        | 25 Microphone Input            |
| 8 Power-on button                              | 17 D-Sub/VGA Video Output |                                |
| 9 2x Perforation for optional WLAN/LTE antenna | 18 Vesa Mount 100x100mm   |                                |

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## Shuttle XPC all-in-one X5073TA – 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 X5073TA 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 X5073TA 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 XPC all-in-one X5073TA 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 X5073TA and there are three displays showing different content.



### Protection Class IP54

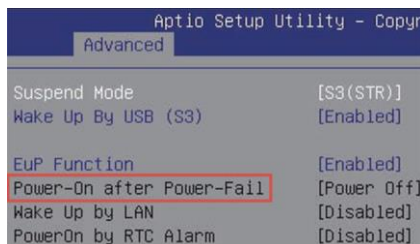
The front panel of the Shuttle XPC all-in-one X5073TA is dust-protected and protected from splashing of water according to IP protection class 54. Consequently, this All-in-One PC can be used for those indoor applications, where the touchscreen may be exposed to humidity and occasional splashing of water. This is particularly welcome in restaurants, laboratories, production or other places.



### Optimised Cable Management

Most of the connectors are now located on 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.



### 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.



### 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).

Right photo: 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 X5073TA 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 X5073TA easy to carry.

**Shuttle XPC all-in-one X5073TA – Range of Applications**

**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



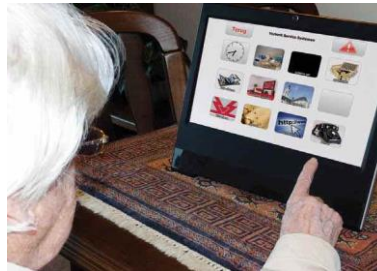
**Device Control**  
e.g. for copy  
machines



**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



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## Shuttle XPC all-in-one X5073TA – Specifications

<i>Fanless and silent</i>	<p>Passive heatpipe cooling, no fan noise at all                  Perfect to be used in noise-sensitive environments                  Fanless, dust-free and thus virtually maintenance-free</p>
<i>24/7 nonstop operation</i>	<p>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.</p>
<i>IP54 protected</i>	<p>The front panel is dust-protected and protected from splashing of water according to protection class IP54.</p>
<i>Chassis</i>	<p>Colour: black                  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</p>
<i>Operating System</i>	<p>Windows 10 Pro (64-bit)</p>
<i>Touchscreen</i>	<p>Touchscreen function supports fingertip input                  Resistive 5-wire single-touch technology                  Stylus for the built-in touchscreen</p>
<i>15.6" Display</i>	<p>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</p>
<i>Processor</i>	<p>Model: Intel Core i3-8145U (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 / 4                  Clock rate: 1.8 GHz, max. Turbo Frequency: 3.9 GHz                  L1/L2/L3 Cache: 128 kB / 512 kB / 4 MB                  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</p>

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<p><i>Integrated Graphics</i></p>	<p>Intel UHD Graphics 620            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            Supports Quick Sync Video and Clear Video HD technology</p>
<p><i>Up to three displays</i></p>	<p>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</p>
<p><i>BIOS</i></p>	<p>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</p>
<p><i>Memory</i></p>	<p>8 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</p>
<p><i>M.2 SSD</i></p>	<p>120 GB SSD card in M.2-2280 format (M key)            PCIe interface, supports NVMe</p>
<p><i>Optional Storage</i></p>	<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 600 MB/s data transfer speed (6 Gbit/s).            Supports one drive with up to 12.5 mm in height</p>
<p><i>Card Reader</i></p>	<p>Integrated card reader supports SD, SDHC and SDXC memory flash cards</p>
<p><i>Webcam</i></p>	<p>Integrated 2.0 Megapixel (1600 x 1200) HD webcam</p>
<p><i>Microphone Speakers</i></p>	<p>Front panel with integrated Electret Condenser Microphone and            2x 2W speakers</p>
<p><i>Audio</i></p>	<p>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.</p>



<p><i>Wired Network</i></p>	<p>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)</p>
<p><i>Wireless Network</i></p>	<p>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</p>
<p><i>Front LEDs</i></p> <p><i>Connectors left side</i></p>	<p>Power LED (blue)          Hard disk LED (orange)</p> <p>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)</p>
<p><i>Connectors bottom side</i></p>	<p>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)          Optional: 2x COM/serial (RJ45), DIO (RJ11) for cash drawer (accessory POS01)</p>
<p><i>Connectors rear side</i></p>	<p>VGA connector (D-Sub 15 pol., analog video)          Optional: 2x COM/serial (D-Sub), 1x LPT/parallel (accessory: PCL71 or POS01)</p>
<p><i>Connectors onboard</i></p>	<p>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</p>
<p><i>Power Adapter</i></p>	<p>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 X5073TA also supports a 60 W power adapter with 12 V DC output voltage</p>

<p><i>DC Input</i></p>	<p>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%.</p>
<p><i>Included Accessories</i></p>	<p>Quick Guide Driver DVD External Power Adapter (65W / 19V) with Power cord Serial ATA cable for the 2.5" drive Screws</p>
<p><i>Optional Accessories</i></p>	<p><u>PCL71</u>: COM / LPT adapter: - 1x Parallel (25p D-Sub) - 2x Serial RS232 (9p D-Sub) supports 0 / 5 / 12V <u>POS01</u>: 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 <u>PF55</u>: Carrying bag</p>
<p><i>Environmental criteria</i></p>	<p>Operating temperature: 0~40 °C Humidity: 10~90 %, non-condensing</p>
<p><i>Certification and Compliance</i></p>	<p>EMI: CE, FCC, BSMI Safety: CB, BSMI, ETL Other compliances: RoHS, ErP Lot6, Energy Star v5.0</p>
<p><i>Conformity</i></p>	<p>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)</p>

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