

# X50V7

## ALL IN ONE PC



<b>PROCESSOR</b>	Intel® Celeron® 4205U (Core i3-8145U optional)	
<b>MEMORY</b>	2 x DDR4 SODIMM 2133 MHz slots, Supports dual channel up to 32GB (16GB x 2)	
<b>VIDEO GRAPHICS</b>	Intel UHD graphics	
<b>VIDEO OUTPUT</b>	HDMI + VGA, Supports two additional displays	
<b>AUDIO</b>	Realtek ALC269, 2 channel HD audio	
<b>ETHERNET</b>	Intel Gigabit LAN 10/100/1000 Mb/s operation	Supports Wake on LAN function 802.11 b/g/n/ac + Bluetooth 4.0 (M.2 2230)
<b>STORAGE INTERFACE</b>	SATA III 6 GB/s	
<b>FRONT PANEL</b>	(1) Power LED (1) 2.0M pixel Webcam (1) Microphone	(1) Hard Disk LED (2) Stereo speakers (1) Touchscreen LCD display
<b>SIDE PANEL</b>	(1) Power on Button (1) SD Card Reader (1) Hole w/ Clear CMOS button	(2) USB 3.2 Gen 1 (1) Hole w/ power button
<b>BACK &amp; BOTTOM PANEL</b>	(1) HDMI 1.4a port (1) VGA port (2) Kensington Lock (1) VESA mount (2) USB 3.2 Gen 1 (2) USB 2.0 (1) DC-input (1) Hole for optional WLAN/LTE antenna	(1) Cooling vents (2) Optional COM + LPT (PCL71) (2) Optional RJ45 + DIO/RJ11 (POS01) (1) RJ45 Gigabit LAN (1) Stylus (1) Microphone input (1) Headphone output
<b>DRIVE BAYS</b>	(1) 2.5" HDD/SSD bay	
<b>DIMENSIONS</b>	15.4(L) x 1.7(W) x 12.9(H) inches	
<b>POWER</b>	65W 19V power supply	
<b>ACCESSORIES</b>	Quick Guide 65W power adapter Power cord	Driver DVD Screw package
<b>EXPANSION SLOT</b>	(1) M2. 2280 BM slot	(1) M.2 2230 AE slot
<b>OS SUPPORT</b>	Windows 10 64 bit, Linux 64 bit	

For more information on all products, please contact us at [sales@us.shuttle.com](mailto:sales@us.shuttle.com) or 626.820.9000

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<b>CHASSIS</b>	<p>Black chassis (white option also available)          Mounting hole for Kensington Lock          Dimensions: 15.4 (L) x 1.7 (W) x 12.9 (H) inches          Weight: 7.9 LBS (net) / 10.6 LBS (gross)</p>
<b>POWER SUPPLY</b>	<p>External 65W power adapter (fanless)          AC input voltage: 100 - 240V, 50 - 60 Hz, max 1.6A          Output: 19V DC 3.42A (also supports 65W power adapter with 12V DC output)</p>
<b>OPERATING SYSTEM</b>	<p>The system comes without an operating system installed.          Compatibility: Windows 10, Linux 64 bit</p>
<b>PROCESSOR SUPPORT</b>	<p>Intel® Celeron® 4205U Dual Core (Core i3-8145U option for X50V7U3)          14 nm structure, Whiskeylake-U platform          CPU cores/threads: 2/2, L1/L2/L3 cache: 128 kb/512 kb/2048 kb          CPU clock frequency: 1.8 GHz          Max supported processor power consumption (TDP): 15W          Supports 64 bit, AES-NI, VT-x (EPT), VT-d, Enhanced SpeedStep, NX bit, SSE 4.1/4.2          System on chip processor (SoC) with integrated graphics processor, no chipset required</p>
<b>FANLESS COOLING</b>	<p>Passive heatpipe cooling, no fan noise at all          Suitable for noise sensitive environments          Fanless, dust-free and virtually maintenance free</p>
<b>MEMORY SUPPORT</b>	<p>2 x 260 pin SODIMM slots          Supports DDR4 2133 (PC4-17000) SDRAM at 1.2V          Supports Dual Channel mode          Supports a max. of 32GB per DIMM, up to 64GB total (2 x 32 GB)          Supports two unbuffered DIMM module (no ECC or registered)</p>
<b>M.2 SLOT</b>	<p>M.2 2280 BM slot provides the following interfaces:          PCI-Express Gen 2.0 X4 up to 16 GB/s data transfer speed, SATA v3.0 (6 GB/s) interface</p> <p>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 BM key) and M.2 PCI-E SSDs (with M key).</p>
<b>AUDIO</b>	<p>Realtek® ALC269 audio codec, Digital Audio supported via HDMI          Two analog audio connectors (3.5 mm) on the bottom panel:          Line-out (headphones), Microphone input</p>
<b>WIRED NETWORK</b>	<p>Supports 10/100/1000 Mb/s operation          Intel i211 ethernet controller with MAC, PHY, PCIe interface          Supports Wake on LAN from S3, S4 modes          Supports network boot by Preboot eXecution Environment (PXE)</p>
<b>WIRELESS NETWORK</b>	<p>Built-in M.2 2230 AE WLAN card with connectors for two external antennas          Supports Wi-Fi IEEE 802.11 b/g/n/ac on 2.4/5 GHz band, 1T1R          Supports 20/40/80 MHz channel bandwidth, supports Bluetooth 4.0 on 2.4 GHz band          Supports WPA(-PSK), WPA2(-PSK), WEP 64/128 bit, IEEE 802.11x, IEEE 802.11i</p>
<b>CARD READER</b>	<p>Integrated card reader supports SD, SDHC, and SDXC memory flash cards</p>
<b>WEBCAM</b>	<p>Integrated 2.0 Megapixel (1600 x 1200) HD</p>
<b>INTEGRATED GRAPHICS</b>	<p>Intel UHD graphics, GPU clock rate: 300 - 900 MHz          Supports DirectX12, full H264, H265 8/10 bit, VP8/9, VC-1, AVC hardware decoding</p> <p>Two addition screens are supported:          -HDMI 1.4 (1920 x 1080/60 Hz or 3840 x 2160/30 Hz)          -VGA analog video (1920 x 1080/60 Hz)</p> <p>Supports Quick Sync Video and Clear Video HD technology          Clone mode: all displays show the same content at 1366 x 768 resolution          Extended mode: all displays show different content</p>

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<b>IP54 PROTECTED</b>	The front panel is dust and splash water protected with protection class IP54	
<b>TOUCHSCREEN</b>	15.6" LCD display, 16:9 widescreen panel (1366 x 798 px), 1.05 Megapixel High power LED, Luminance: 220 cd/sqm, Glass thickness: 0.5 mm Resistive 5 wire single touch technology Stylus for screen included	
<b>BIOS</b>	AMI BIOS in 8 MB EEPROM with SPI interface Supports power fail resume / always on Supports Wake-on-LAN from S3, S4, S5 ACPI states Supports hardware monitoring and watch dog functionality Supports Firmware TPM v2.0 functionality	
<b>STORAGE</b>	Supports one 2.5" SATA hard disk or SSD drive, max height 12.5 mm Supports SATA III, 6 GB/s bandwidth	
<b>MICROPHONE/SPEAKERS</b>	Front panel integrated with Electret Condenser Microphone and 2 x 2W speakers	
<b>ONBOARD CONNECTORS</b>	Internal USB 2.0 type A for USB stick Serial ATA 6 GB/s Serial ATA power connector	eDP connector (Embedded DisplayPort) - occupied by display Connector for optional COM/LPT adapter (POS01/PCL71) USB 2.0 x 3 header
<b>BOTTOM CONNECTORS</b>	HDMI 1.4a (video/audio) USB 3.2 Gen 1 x 2 USB 2.0 x 2 Optional COM x 2/RJ45 x 2, DIO (RJ11) for cash drawer (POS01)	Microphone input (3.5 mm) Headphones output (3.5 mm) DC input for external power adapter Perforation for optional WLAN/LTE antenna (6.5 mm) Gigabit LAN RJ45
<b>BACK/SIDE CONNECTORS</b>	VGA connector (15 pol., analog video) Optional COM x 2/VGA, LPT x 1 (PCL71/ POS01 accessory) Power button	USB 3.2 Gen 1 x 2 Hole for Clear CMOS button Hole for power button SD Card Reader
<b>INCLUDED ACCESSORIES</b>	XPC installation guide Driver DVD Screw pack	External 65W/19V power adapter with cord Serial ATA cable for 2.5" drive
<b>OPTIONAL ACCESSORIES</b>	COM/LPT adapter (POS01): -1 x Parallel (25 p, VGA) -2 x Serial RS232 (9p, VGA, 5/12V) -2 x Serial RS232 (8p, RJ45) -1 x DIO/RJ11 connector (12/24V)	COM/LPT adapter (PLC71): -1 x Parallel (25p, VGA) -2 x Serial RS232 (9p, VGA, 5/12V)
<b>ENVIRONMENTAL CRITERIA</b>	Operating temperature: 0 - 40°C	Humidity: 10 - 90% (non-condensing)
<b>CERTIFICATIONS</b>	EMI: FCC, CE, BSMI Safety: ETL, CB, BSMI  This model is classed as a technical information equipment (ITE) in class B and is intended for use in living rooms and offices. The CE mark approves 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 related to Radio Equipment Directive (RED)	

**BIOS DOWNLOADS:** <http://global.shuttle.com/products/productsDownload?productId=2451>

**SUPPORT LIST:** <http://global.shuttle.com/products/productsSupportList?productId=2451>

**FAQ LIST:** <http://global.shuttle.com/support/faq>

**PRODUCT WARRANTY:** <https://us.shuttle.com/barebone-support/policy-xpc-barebone/>

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### Front View and Back View



- |                   |                   |
|-------------------|-------------------|
| 1 Webcam          | 4 Power on LED    |
| 2 Microphone      | 5 Hard Disk LED   |
| 3 Touchscreen LCD | 6 Stereo speakers |



- |                           |                      |
|---------------------------|----------------------|
| A COM/LPT/RJ11 (optional) | D Stand (handle)*    |
| B Kensington Lock         | E VGA (video output) |
| C Cooling vents           | F Stylus with holder |

\*remove handle to reveal VESA mount holes

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### Side and Bottom View



- |   |                    |   |                   |
|---|--------------------|---|-------------------|
| 1 | Power on button    | 4 | SD Card Reader    |
| 2 | Stylus with holder | 5 | USB 3.1 Gen 1 x 2 |
| 3 | Power button       | 6 | Clear CMOS button |



- |   |                                      |
|---|--------------------------------------|
| A | Optional COM x 2 + LPT (PCL71)       |
| B | Optional RJ45 x 2 + DIO/RJ11 (POS01) |
| C | VGA (video output)                   |
| D | Perforation for TV antenna (9 mm)    |
| E | DC input for power adapter           |
| F | USB 2.0 x 2                          |
| G | RJ45 Gigabit LAN                     |
| H | USB 3.1 Gen 1 x 2                    |
| I | HDMI (video output)                  |
| J | Microphone input                     |
| K | Headphone output                     |

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### EQUIPPED WITH INTEL<sup>®</sup> WHISKEYLAKE-U

The X50V7 supports Intel<sup>®</sup> Whiskeylake-U platform technology with an Intel<sup>®</sup> Celeron<sup>®</sup> 4205U 1.8 GHz dual core processor\*. It supports DDR4 2133 MHz memory (up to 32 GB) with Intel<sup>®</sup> HD 610 graphics for Ultra HD/4K video playback.

\*Core i3 processor option available



### IP54 CERTIFIED DESIGN

The front panel of the X50V7 is IP54 certified for dust and splash water resistance, suitable for indoor applications where there touch screen may be exposed to humidity and the occasional splashing of water.



### GREAT CONNECTIVITY WITH MULTIPLE I/O

With the optional PCL71 or POS01 accessory, the X50V7 provides multiple ports for connecting with kiosks, cash drawers, bar code scanners, and other peripherals.\*

\*Both optional accessories are 5V/12V compatible. Only one of the accessories can be installed at a time



### FANLESS DESIGN

With a passive thermal cooling system, the fanless design reduces power consumption required by a fan. Use with solid state disks for an operational platform completely free of noise.



### 24/7 NONSTOP OPERATION

Officially approved for 24/7 nonstop operation, the X50V7 keeps things cool and stable for long term demands of applications with heat pipe cooling technology.

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ACCESSORY	PCL71
DESCRIPTION	The PCL71 is compatible with X50V4/X50V5/X50V6/X50V7 All-in-one PCs and can provide RS232/RS422/RS485 ports (supports 5V/12V) and one parallel (LPT) port on the back panel.
ITEMS INCLUDED	Circuit board x 1, screws x 4, ribbon cable x 1, multi-language quick installation guide
EXTERNAL PORT(S)	LPT x 1, COM1 (RS232/RS422/RS485) x 1, COM2 (RS232) x 1 Supports 0V/5V/12V



ACCESSORY	POS01
DESCRIPTION	The POS01 provides an additional RJ11 type DIO port (12V/24V) and four COM ports (RS232/RS422/RS485 x 1, RJ45 type RS232 x 1, RJ45 type RS232/RS422/RS485 x 1)
ITEMS INCLUDED	Printed Circuit Board (PCB), screws, power connector cable (4 pin), ribbon cable, quick guide
EXTERNAL PORT(S)	LPT x 1, COM1 (RS232/RS422/RS485 x 1), COM2 (RS232 x 1), COM RJ45 port x 2, DIO RJ11 port x 1
REMARKS	All COM ports are 5/12V compatible

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