

X50V8

ALL IN ONE PC



PROCESSOR	Intel® Celeron® 5205U (Core i3-10110U optional)	
MEMORY	2 x DDR4 SODIMM 2666 MHz slots, Supports dual channel up to 64GB (32GB x 2)	
VIDEO GRAPHICS	Intel UHD graphics	
VIDEO OUTPUT	HDMI + VGA, Supports two additional displays	
AUDIO	Realtek ALC269 or C-Media CM6542, 2W x 2 speakers	
ETHERNET	Intel i219 10/100/1000 MB/s operation	Supports Wake on LAN function
STORAGE INTERFACE	SATA 6 GB/s	
FRONT PANEL	(1) Power LED (1) HD Webcam (1) Microphone	(1) Hard Disk LED (2) Stereo speakers (1) Touchscreen LCD display
SIDE PANEL	(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
BACK & BOTTOM PANEL	(1) HDMI 1.4a port (video & audio) (1) VGA port (1) Kensington Lock (1) VESA mount (2) USB 3.2 Gen 1 (2) USB 2.0 (1) DC-input (2) 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
DRIVE BAYS	(1) 2.5" HDD/SSD bay	
DIMENSIONS	15.4(L) x 1.7(W) x 12.9(H) inches	
POWER	65W 19V power supply	
ACCESSORIES	Quick Guide 65W power adapter Power cord	Driver DVD Screw package
EXPANSION SLOT	(1) 2280 Type BM (PCI-E x4)	(1) 2230 Type AE key socket (Wi-Fi pre-installed)
OS SUPPORT	Windows 10/11 64 bit, Linux 64 bit	

For more information on all products, please contact us at sales@us.shuttle.com or **626.820.9000**

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CHASSIS	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: 7.7 LBS (net) / 9.2 LBS (gross)
POWER SUPPLY	External 65W power adapter (fanless), 3-pin AC main cable 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)
OPERATING SYSTEM	The system comes without an operating system installed. Compatibility: Windows 10/11 64 bit, Linux 64 bit
PROCESSOR SUPPORT	Intel® Celeron® 5205U Dual Core (Core i3-10110U option for X50V8U3) 14 nm structure, Comet Lake-U platform CPU cores/threads: 2/2, L1/L2/L3 cache: 256 kb/1 MB/2 MB CPU clock frequency: 1.9 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
FANLESS COOLING	Passive heatpipe cooling, no fan noise at all Suitable for noise sensitive environments Fanless, dust-free and virtually maintenance free
MEMORY SUPPORT	2 x 260 pin SODIMM slots Supports DDR4 2400 (PC4-19200) 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)
M.2 SLOT	M.2 2280 BM slot provides the following interfaces: PCI-Express Gen 2.0 X4, SATA v3.0 (6 GB/s) interface 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).
AUDIO	Realtek® ALC269 audio codec or C-Media CM6542, Digital Audio supported via HDMI Two analog audio connectors (3.5 mm) on the bottom panel: Line-out (headphones), Microphone input
WIRED NETWORK	Supports 10/100/1000 MB/s operation Intel i211 or i219LM ethernet controller Supports Wake on LAN from S3, S4 modes Supports network boot by Preboot eXecution Environment (PXE)
WIRELESS NETWORK	Built-in M.2 2230 E WLAN card with connectors for two external antennas WLAN controller Realtek RTL8821CE-CG 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 4.2 on 2.4 GHz band Supports WPA(-PSK), WPA2(-PSK), WEP 64/128 bit, IEEE 802.11x, IEEE 802.11i
CARD READER	Integrated card reader supports SD, SDHC, and SDXC memory flash cards
WEBCAM	Integrated Full HD webcam (1920 x 1080 pixels)
INTEGRATED GRAPHICS	Intel UHD graphics for 10th Gen Intel® Core™ Processors, GPU clock rate: 300 - 900 MHz Supports DirectX12, full H264, H265 8/10 bit, VP8/9, VC-1, AVC hardware decoding Two addition screens are supported: -HDMI 1.4b (1920 x 1080/60 Hz or 3840 x 2160/30 Hz) -VGA analog video (1920 x 1080/60 Hz) 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

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IP54 PROTECTED	The front panel is dust and splash water protected with protection class IP54	
TOUCHSCREEN	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, screen supports fingertip input	
BIOS	AMI BIOS in 16 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	
STORAGE	Supports one 2.5" SATA hard disk or SSD drive, max height 12.5 mm Supports SATA III, 6 GB/s bandwidth, SATA cable pre-installed	
MICROPHONE/SPEAKERS	Front panel integrated with Electret Condenser Microphone and 2 x 2W speakers	
ONBOARD CONNECTORS	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 (all occupied)
BOTTOM CONNECTORS	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
BACK/SIDE CONNECTORS	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
INCLUDED ACCESSORIES	XPC installation guide Driver DVD Screw pack	External 65W/19V power adapter with cord Serial ATA cable for 2.5" drive
OPTIONAL ACCESSORIES	COM/LPT adapter/RJ11 (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/RJ11 adapter (PLC71): -1 x Parallel (25p, VGA) -2 x Serial RS232 (9p, VGA, 5/12V)
ENVIRONMENTAL CRITERIA	Operating temperature: 0 - 40°C	Humidity: 10 - 90% (non-condensing)
CERTIFICATIONS	EMI: FCC, CE, BSMI, RCM, VCCI Safety: cTUVus, CB, BSMI	Other: RoHS, Energy Star v8.0, ErP Lot3
	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: <https://global.shuttle.com/products/productsDownload?productId=2621>

SUPPORT LIST: <https://global.shuttle.com/products/productsSupportList?productId=2621>

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 | HD 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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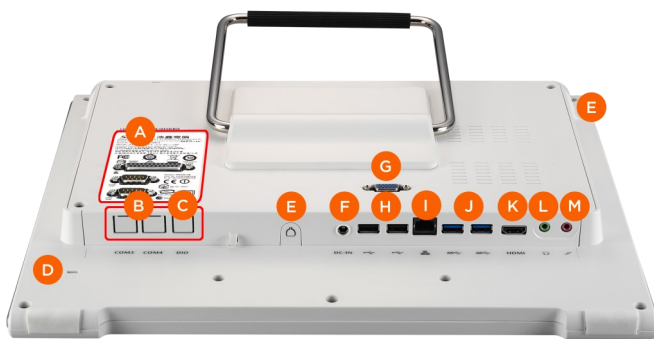
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Side and Bottom View



- 1 Power on button
- 2 Stylus with holder
- 3 Perforation for antenna
- 4 Hole for hidden power button
- 5 SD Card Reader
- 6 USB 3.2 Gen 1 x 2
- 7 Clear CMOS button



- A Optional COM x 2 + LPT (PCL71)
- B Optional RJ45 x 2 (POS01)
- C Optional RJ11 DIO port (POS01)
- D Kensington Lock
- E Perforation for antenna (9 mm) x 2
- F DC input for power adapter
- G VGA (video output)
- H USB 2.0 x 2
- I RJ45 Gigabit LAN
- J USB 3.2 Gen 1 x 2
- K HDMI (video output)
- L Headphone output
- M Microphone input

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EQUIPPED WITH INTEL® COMET LAKE-U

The X50V8 supports Intel® Comet Lake-U platform technology with an Intel® Celeron® 5205U / Core™ i3-10110U dual core processor*. It supports DDR4 2666 MHz memory (up to 64 GB) with Intel® UHD graphics for Ultra HD/4K video playback.

*Core i3 processor option available



IP54 CERTIFIED DESIGN

The front panel of the X50V8 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 X50V8 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 X50V8 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 the P9 and X50 series of 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	Printed Circuit board x 1 (PCB), 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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X50V7 vs X50V8

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MODEL	X50V7	X50V8
CHIPSET	Intel Celeron 4205U Intel Core i3-8145U (X50V7U3)	Intel Celeron 5205U Intel Core i3-10110U (X50V8U3)
PROCESSOR SUPPORT	SoC, max TDP 15W, 1.8 GHz 14nm++ Whiskey Lake-U	SoC, max TDP 15W, 1.9 GHz 14nm Comet Lake-U
MEMORY	2 x 32 GB DDR4 2400 MHz max	2 x 32 GB DDR4 2400 MHz max
VIDEO OUTPUT	HDMI 1.4a + VGA, Supports two additional displays, Supports 4K Ultra HD	HDMI 1.4b + VGA, Supports two additional displays, Supports 4K Ultra HD
GRAPHICS	Intel UHD Graphics 610	Intel UHD Graphics (for 10th Gen Intel® Core™ processors)
AUDIO	Realtek AL269, HD audio	Realtek AL269 or C-Media CM6542, HD audio
ETHERNET	Intel i211 Gigabit LAN 10/100/1000 MB/s operation Supports Wake on LAN function	Intel i211 or i219LM Gigabit LAN 10/100/1000 MB/s operation Supports Wake on LAN function
WIRELESS LAN	IEEE 802.11 b/g/n/ac (2.4/5 GHz band) Internal antenna x 2 Supports Bluetooth 4.0 on 2.4 GHz band	IEEE 802.11 b/g/n/ac (2.4/5 GHz band) Internal antenna x 2 Supports Bluetooth 4.2 on 2.4 GHz band
TPM	Support Firmware TPM v2.0	Supports Firmware TPM v2.0
SSD CARD SUPPORT	M.2 2280 BM (PCI-E X4 SATA)	M.2 2280 BM (PCI-E X4 SATA)
SIDE/BACK PANEL	HDMI 1.4a, VGA USB 3.2 Gen 1 x 4, USB 2.0 x 2 Gigabit LAN (RJ45) Hole w/ Clear CMOS button	HDMI 1.4b, VGA USB 3.2 Gen 1 x 4, USB 2.0 x 2 Gigabit LAN (RJ45) Hole w/ Clear CMOS button
DRIVE BAYS	(1) 2.5" HDD/SSD bay	(1) 2.5" HDD/SSD bay
OPTIONAL ACCESSORIES	COM/LPT adapter (PCL71) COM/LPT/RJ11 adapter (POS01)	COM/LPT adapter (PCL71) COM/LPT/RJ11 adapter (POS01)
EXPANSION SLOT	M.2 2280 BM slot M.2 2230 AE slot	M.2 2280 BM slot M.2 2230 AE slot
OS SUPPORT	Windows 10/11 64 bit, Linux (64 bit)	Windows 10/11 64 bit, Linux (64 bit)

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