X50V7

ALL IN ONE PC

PROCESSOR	Intel® Celeron® 4205U (Core i3-8145U optional)	
MEMORY	2 x DDR4 SODIMM 2133 MHz slots, Supports dual channel up to 32GB (16GB x 2)	
VIDEO GRAPHICS	Intel UHD graphics	
VIDEO OUTPUT	HDMI + VGA, Supports two additional displays	
AUDIO	Realtek ALC269, 2 channel HD audio	
ETHERNET	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)
STORAGE INTERFACE	SATA 6 GB/s	
FRONT PANEL	(1) Power LED (1) 2.0M pixel 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 (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
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) M2. MAX to 2280 Type BM (PCI-E x4)	(1) M.2 MAX to 2230 Type AE key socket
OS SUPPORT	Windows 10 64 bit, Linux 64 bit	

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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: 7.9 LBS (net) / 10.6 LBS (gross)
POWER SUPPLY	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)
OPERATING SYSTEM	The system comes without an operating system installed. Compatibility: Windows 10, Linux 64 bit
PROCESSOR SUPPORT	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
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 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)
M.2 SLOT	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 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, 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 ethernet controller with MAC, PHY, PCIe interface Supports Wake on LAN from S3, S4 modes Supports network boot by Preboot eXecution Environment (PXE)
WIRELESS NETWORK	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
CARD READER	Integrated card reader supports SD, SDHC, and SDXC memory flash cards
WEBCAM	Integrated 2.0 Megapixel (1600 x 1200) HD
INTEGRATED GRAPHICS	Intel UHD graphics, 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 1.4 (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
BIOS	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
STORAGE	Supports one 2.5" SATA hard disk or SSD drive, max height 12.5 mm Supports SATA III, 6 GB/s bandwidth
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 eDP connector (Embedded DisplayPort) - occupied by display Serial ATA 6 GB/s Connector for optional COM/LPT adapter (POS01/PCL71) Serial ATA power connector USB 2.0 x 3 header
BOTTOM CONNECTORS	HDMI 1.4a (video/audio) Microphone input (3.5 mm) USB 3.2 Gen 1 x 2 Headphones output (3.5 mm) USB 2.0 x 2 DC input for external power adapter Optional COM x 2/RJ45 x 2, DIO (RJ11) Perforation for optional WLAN/LTE antenna (6.5 mm) for cash drawer (POS01) Gigabit LAN RJ45
BACK/SIDE CONNECTORS	VGA connector (15 pol., analog video) USB 3.2 Gen 1 x 2 Optional COM x 2/VGA, LPT x 1 (PCL71/ Hole for Clear CMOS button POS01 accessory) Hole for power button Power button SD Card Reader
INCLUDED ACCESSORIES	XPC installation guide External 65W/19V power adapter with cord Driver DVD Serial ATA cable for 2.5" drive Screw pack
OPTIONAL ACCESSORIES	COM/LPT adapter (POS01): COM/LPT adapter (PLC71): -1 x Parallel (25 p, VGA) -1 x Parallel (25p, VGA) -2 x Serial RS232 (9p, VGA, 5/12V) -2 x Serial RS232 (9p, VGA, 5/12V) -2 x Serial RS232 (8p, RJ45) -1 x DIO/RJ11 connector (12/24V)
ENVIRONMENTAL CRITERIA	Operating temperature: 0 - 40°C Humidity: 10 - 90% (non-condensing)
CERTIFICATIONS	EMI: FCC, CE, BSMI Other: RoHS, Energy Star v5.0, ErP Lot6 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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X50V7

Front View and Back View

1	Webcam	**4**	Power on LED
2	Microphone	**5**	Hard Disk LED
3	Touchscreen LCD	**6**	Stereo speakers
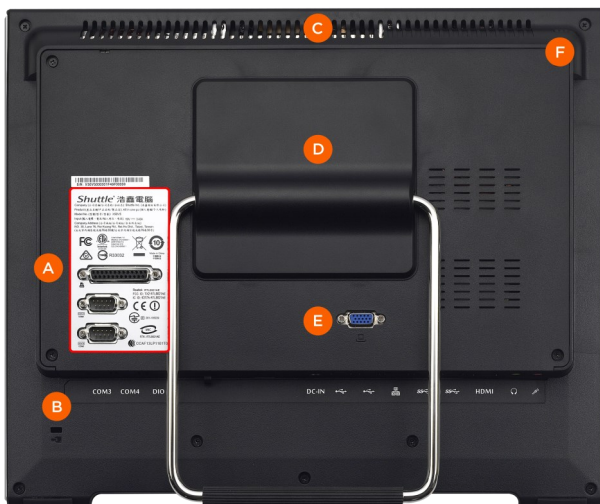
A	COM/LPT/RJ11 (optional)	**D**	Stand (handle)*
B	Kensington Lock	**E**	VGA (video output)
C	Cooling vents	**F**	Stylus with holder

*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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X50V7

EQUIPPED WITH INTEL® WHISKEYLAKE-U

The X50V7 supports Intel® Whiskeylake-U platform technology with an Intel® Celeron® 4205U 1.8 GHz dual core processor*. It supports DDR4 2133 MHz memory (up to 32 GB) with Intel® 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 my 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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