

CUBE PC



PROCESSOR	Intel® 11th Generation 125W Core™ i5	
MEMORY	DDR4 3200 MHz 16GB	
VIDEO GRAPHICS	Intel Graphics based on CPU: Xe (Rocketlake CPU)/HD (Cometlake CPU)	
VIDEO OUTPUT	HDMI x 1 + DisplayPort x 2, Supports triple independent displays, Supports 4K/60Hz playback	
AUDIO	Realtek ALC662/ALC897, 5.1 channel HD audio	
ETHERNET	Intel i210AT + i219LM 10/100/1000 MB/s operation	Supports Wake on LAN function Supports Teaming function
STORAGE INTERFACE	SATA 6 GB/s	
ONBOARD CONNECTORS	(2) Fan connectors (4 pin) (4) SATA 6 connector (1) ATX main power (2*10) (1) ATX 12V power (2*2) (1) 1x4 USB 2.0 header	(1) RS232 header (1) VGA header (1) Front AUDIO header (2) Front USB FFC header
FRONT PANEL	(1) Power Button (1) Power LED (1) HDD LED (1) USB 3.2 Gen 1 Type-C	(3) USB 3.2 Gen 1 (1) Microphone in (1) Headphone out
BACK PANEL	(4) USB 2.0 (4) USB 3.2 Gen 2 (2) LAN ports (1) HDMI (2) DisplayPort (3) Antenna hole	(1) Audio line-in (1) Audio line-out (1) Microphone input (1) Kensington Lock (1) Clear CMOS button (3) Perforation for optional WLAN antennas
DRIVE BAYS	(1) 5.25" ODD bay (2) 3.5" HDD bay	Supports up to 2.5" HDD x2 or x4 if PHD3 HDD rack x1 or x2 accessory is used
DIMENSIONS	13(L) x 8.5(W) x 7.48(H) inches	
POWER	Input: 100 - 240V AC Supports 80 PLUS Bronze	80 PLUS 300W power supply
ACCESSORIES	Quick Guide CPU Thermal Grease SATA cable	Driver DVD Power Cord Screw Package
EXPANSION SLOT	(1) PCI-E X16 Gen 4.0 slot (1) PCI-E X4 Gen 3.0 slot	(1) M.2 MAX to 2230 Type E key socket (1) M.2 MAX to 2280 Type M key socket
OS SUPPORT	Windows 10 64 bit, Linux	
CERTIFICATION	CB, CE, cTUVus, BSMI, FCC, RCM, VCCI	

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R6-CHASSIS	<p>Black aluminum chassis, glossy plastic with horizontal line textures (front panel)</p> <p>Drive bays: 1 x 5.25" ODD, 2 x 3.5" HDD (1 x internal, 1 x external)</p> <p>Supports up to 2 x 2.5" HDD if PHD3 rack accessory x1 or x2 is used</p> <p>Front doors for I/O ports and storage drives</p> <p>Kensington lock slot on the back as part of anti-theft system</p> <p>Dimensions: 13 (L) x 8.5 (W) x 7.48 (H) inches</p> <p>Weight: 7.7 LBS (net) / 9.9 LBS (gross)</p>
MAINBOARD AND CHIPSET	<p>Shuttle mainboard, proprietary design for XPC SH570R6; Chipset: Intel® H570</p> <p>Passive chipset cooling with heat sink</p> <p>Solid capacitors for sensitive areas provide excellent heat resistance for enhanced system durability</p>
BIOS	<p>AMI BIOS, SPI Interface, 16 MB Flash-EPROM</p> <p>Supports Hardware Monitoring, Watch Dog, Power Fail Resume</p> <p>Supports firmware TPM (fTPM) v2.0</p> <p>Supports boot up from external USB flash memory</p> <p>Supports Unified Extensible Firmware Interface (UEFI)</p>
POWER SUPPLY	<p>Built-in 300W mini switching power supply</p> <p>AC input voltage: 100 - 240V, 50 - 60 Hz</p> <p>80 PLUS Bronze compliant: PSU provides at least 82/85/82% of efficiency at 20/50/100% load</p> <p>Active PFC Circuit (Power Factor Correction)</p> <p>ATX main power connectors: 2x10 and 2x2 pin</p> <p>Graphics power connector: 6 pin</p> <p>Other connectors: 4 x SATA, 2 x Molex</p>
OPERATING SYSTEM	<p>The system comes without an operating system installed.</p> <p>Compatibility: Windows 10, Linux 64bit</p>
PROCESSOR SUPPORT	<p>LGA 1200 Socket supports Intel® Core® i3/i5/i7/i9, Pentium, and Celeron processors</p> <p>Supports 10th and 11th generation Intel Core processors ("Comet Lake-S" and "Rocket Lake-S"), 14++ nm process technology</p> <p>Max supported processor power consumption (TDP): 125W</p> <p>Up to 10 CPU cores (Max 8 cores for 11th Gen, max 10 cores for 10th Gen), 20 threads and 20 MB of L3 cache</p> <p>Does not support the unlock function of Intel K-series processors</p> <p>The processor integrates PCI-Express, the memory controller, and graphics engine on the same die (performance features depend on the processor type)</p>
SYSTEM COOLING	<p>Shuttle I.C.E. (Integrated Cooling Engine) advanced heatpipe cooling technology, linear-controlled 92 mm fan</p> <p>Silent X cooling and noise reduction technology with Active Airflow</p>
MEMORY SUPPORT	<p>4 x 288 pin slots, Supports DDR4 memory at 1.2V, Supports Dual Channel mode</p> <p>Supports a max. of 32GB per DIMM, up to 128GB total, DDR4 clock frequency depends on processor:</p> <ul style="list-style-type: none"> -10th Gen "Comet Lake" Core i7/i9 supports DDR4-2933 -11th Gen "Rocket Lake" supports DDR4-3200 -other "Comet Lake" CPUs supports DDR4-2666
PCI-E SLOTS	<p>1 x PCI-Express x16 v4.0 slot (supports PCI-Express v3.0 with 10th Gen "Comet Lake" processors)</p> <p>1 x PCI-Express x4 v3.0 slot, open ended</p> <p>Supports dual slot (double width) graphic cards (occupies the second PCI-Express slot)</p> <p>6 pin power connector for graphic card, max size for cards 273 mm x 98 mm x 38 mm</p>
M.2 SLOTS	<p>M.2 2280 BM slot, provides the following interfaces:</p> <ul style="list-style-type: none"> -PCI-Express Gen. 4.0 X4, supports NVMe -SATA v3.0 (max 6 GB/s) <p>Supports M.2 card with a width of 22 mm and a length of 42, 60, or 80 mm (type 2242, 2260, 2280)</p> <p>Supports M.2 SSDs with SATA or PCI-Express interface</p> <p>M.2 2230 E slot for WLAN cards</p> <ul style="list-style-type: none"> -PCI-Express Gen. 3.0 X1 and USB 2.0 <p>Supports M.2 cards with a width of 22 mm and a length of 30 mm (type 2230)</p> <p>Supports WLAN extension cards (optional accessory WLN-M)</p>

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INTEGRATED GRAPHICS	<p>Intel UHD graphics function features depend on the processor type used</p> <p>This model has three video outputs which supports 2160p/60 UHD resolution: -HDMI v2.0b x 1 (only HDMI 1.4b with 10th Gen "Comet Lake" processor) -DisplayPort v1.4 x 2</p> <p>Supports displays with 4K Ultra HD resolution at 3840 x 2160 (2160p/60) Supports three independent displays with integrated graphics function Supports more displays in combination with a discrete graphics card Supports Blu-Ray playback with HDCP content protection Supports multi-channel digital audio over the same cable for both DisplayPort and HDMI Hardware video decoding/encoding</p>	
DRIVE BAYS	<p>Storage bays: 5.25" x 1 (external), 3.5" x 2 (internal x 1, external x 1) Using the optional PHD3 accessory allows for 2.5" x 2 drives to be installed in one 3.5" drive bay</p>	
HD AUDIO	<p>Realtek ALC897, 5.1 channel Three analog audio connectors (3.5 mm) on the back: Line-in (blue), line-out (green), microphone input (pink) shared with 5.1 channel line-out (front, rear, center) Front panel: microphone input and headphone output (line-out)</p>	
GIGABIT LAN CONTROLLER	<p>Dual gigabit network with two RJ45 ports: Intel i210AT x 1 - ethernet controller with MAC, PHY, and PCIe interface Intel i219LM x 1 - PHY connected to the MAC of the processor Supports 10/100/1000 MB/s operation Supports Wake-on-LAN, Supports Teaming mode Supports network boot by Preboot eXecution environment (PXE)</p>	
SATA CONNECTORS	<p>4 x Serial ATA 6G connector onboard (rev 3.0, max 6 GB/s) Supports Intel Rapid Storage Technology (RST) with RAID 0/1/5/10, JBOD</p>	
FRONT PANEL CONNECTORS	<p>Microphone input (3.5 mm) Headphone output (3.5 mm) 1 x USB 3.2 Gen 1 (Type-C) 3 x USB 3.2 Gen 1 (Type-A)</p>	<p>Power button Power indicator (Blue LED) Hard disk drive indicator (Yellow LED)</p>
BACK PANEL CONNECTORS	<p>HDMI 2.0b x 1 (HDMI 1.4 w/ 10th Gen CPU) DisplayPort v1.4 x 2 USB 3.2 Gen 2 x 4 (Type-A) USB 2.0 x 4 (Type-A) Gigabit LAN RJ45 x 2 Clear CMOS button</p>	<p>Audio line-in Audio line-out Microphone input WLAN antenna holes x 3 (optional) Serial RS232 port (optional, H-RS232 accessory)</p>
OTHER CONNECTORS (ONBOARD)	<p>USB 2.0 x 1 (4-pin header) RS232 x 1 (2x5 pin) serial interface</p>	<p>Fan connectors x 2 (4 pin)</p>
INCLUDED ACCESSORIES	<p>XPC installation guide Driver DVD Serial ATA cables x 2 Screw pack</p>	<p>AC Power Cord (with protective earth contacts) Protector cap for CPU socket (don't use if heatpipe/fan is mounted) Thermal paste</p>
OPTIONAL ACCESSORIES	<p>2.5" drive adapter (PHD3) Adapter for RS232 port (H-RS232)</p>	<p>Adapter cable for external power button (CXP01) WLAN IEEE 802.11 a/c + Bluetooth 4.2 w/ antennas (WLN-M)</p>
ENVIRONMENTAL CRITERIA	<p>Operating temperature: 0 - 40°C Humidity: 10 - 90% (non-condensing)</p>	
CERTIFICATIONS	<p>EMI: FCC, CE, BSMI, C-Tick Safety: ETL, CB, BSMI</p> <p>Other: RoHS, Energy Star 5.0, ErP</p> <p>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)</p>	

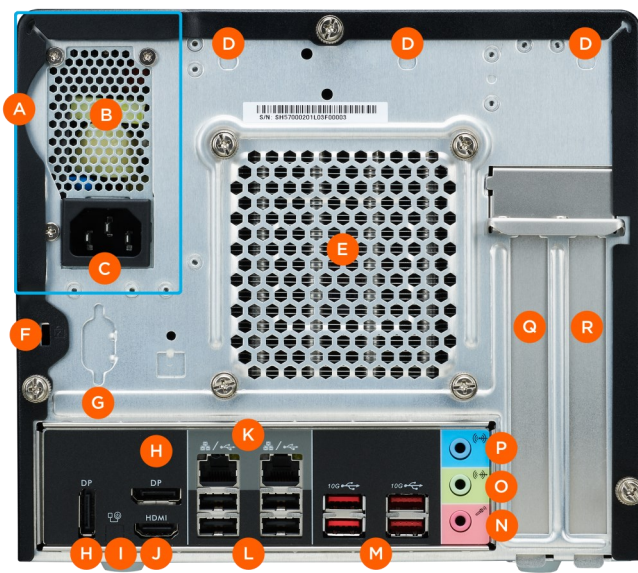
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Front View



- 1 5.25" optical drive bay
- 2 Eject button (optical drive)
- 3 3.5" drive bay (HDD/SSD)
- 4 Hard disk LED
- 5 Power LED
- 6 Power button
- 7 USB 3.2 Gen 1 x 3 (Type-A)
- 8 Microphone input
- 9 Headphone output
- 10 USB 3.2 Gen 1 Type-C

Back View



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|---|---------------------------|---|------------------------|
| A | Power supply | J | HDMI 2.0b/1.4b |
| B | Power supply fan | K | Gigabit LAN (RJ45) x 2 |
| C | AC power connector | L | USB 2.0 x 4 |
| D | Antenna hole x 3 | M | USB 3.2 Gen 1 x 4 |
| E | Heatpipe cooling system | N | Microphone input |
| F | Kensington Lock | O | Audio line-out |
| G | Optional COM port (RS232) | P | Audio line-in |
| H | DisplayPort 1.4 x 2 | Q | PCI Express X16 slot |
| I | Clear CMOS button | R | PCI Express X4 slot |