

SW580R8

CUBE PC



PROCESSOR	Supports Intel® 10th and 11th generation 125W Core™ i3/i5/i7/i9, Pentium® Gold, Celeron®, and Xeon® W series LGA 1200 processors	
MEMORY	4 x 288 pin DDR4 2666/2933/3200 MHz*, Supports dual channel up to 128GB (32GB x 4)	
VIDEO GRAPHICS	Intel UHD Graphics P750 (Xeon W-1300 series processor) Intel UHD Graphics P630 (Xeon W-1200 series processor) Supports DirectX 12	
VIDEO OUTPUT	HDMI 2.0b + DisplayPort 1.4 x 2, Supports triple independent displays, Supports 4K UHD playback	
AUDIO	Realtek ALC897, 5.1 channel HD audio	
ETHERNET	Intel i210AT/i219LM (10/100/1000 MB/s) Realtek 8125b (10/100/1000/2500 MB/s)	Supports Wake on LAN function Supports Teaming function
STORAGE INTERFACE	SATA 6 GB/s	
ONBOARD CONNECTORS	Occupied front connectors: (1) RS232 (2x5 pin header)	(2) Fan connectors (4-pin header) (1) USB 2.0 (4-pin 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 (Type-A) (1) Microphone-in (1) Headphone out
BACK PANEL	(1) HDMI 2.0b/HDMI 1.4b** (2) DisplayPort 1.4 (4) USB 2.0 (4) USB 3.2 Gen 2 (Type-A) (2) Gigabit LAN (i210AT + i219LM) (2) 2.5Gb LAN ports (8125b)	(1) Optional RS232 (1) Audio line-in (1) Audio line-out (1) Microphone input (1) Clear CMOS button (3) Perforation for optional WLAN antennas
DRIVE BAYS	(4) 3.5" HDD bay Supports up to two 2.5" drives with optional PHD3 accessory, can be installed into one 3.5" drive bay	
DIMENSIONS	13(L) x 8.5(W) x 7.48(H) inches	
POWER	Input: 100 - 240V AC, 50-60 Hz	80 PLUS 500W power supply, 80 PLUS Gold
ACCESSORIES	Quick Guide Heatsink compound SATA cable x 2	Driver DVD Power Cord Screw Package
EXPANSION SLOT	(1) PCI-E X16 slot Gen 4.0 (1) PCI-E X4 slot Gen 3.0	(1) M.2 MAX to 2230 Type E key socket (1) M.2 MAX to 2280 Type M key socket
OS SUPPORT	Windows 10/11 64 bit, Linux	

*DDR4 clock frequency depends on processor: 11th Gen "Rocket Lake" supports DDR4-3200, 10th Gen "Comet Lake" Core i7/i9 CPUs supports DDR4-2933, other 10th Gen CPUs supports DDR4-2666

**HDMI 1.4b with 10th Gen "Comet Lake" processor

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R8-CHASSIS	<p>Black aluminum chassis, brushed aluminum front panel Front door for I/O ports (USB and Audio) Kensington lock slot on the back as part of anti-theft system Height with rubber feet: 7.75 inches Dimensions: 13 (L) x 8.5 (W) x 7.48 (H) inches Weight: 7.7 LBS (net) / 9.9 LBS (gross)</p>
MAINBOARD AND CHIPSET	<p>Mainboard with Shuttle form factor, proprietary design for XPC SW580R8 Chipset: Intel® W580, Passive chipset cooling with heat sink Solid capacitors for sensitive areas provide excellent heat resistance for enhanced system durability</p>
BIOS	<p>AMI BIOS, SPI Interface, 16 MB Flash-EPROM Supports Hardware Monitoring, Watch Dog Supports Power Fail Resume Supports boot up from external USB flash memory Supports Unified Extensible Firmware Interface (UEFI)</p>
POWER SUPPLY	<p>Built-in 500W mini switching power supply [4]* AC input voltage: 100 - 240V, 50 - 60 Hz 80 PLUS Gold compliant Active PFC Circuit (Power Factor Correction) ATX main power connectors: 2x10 and 2x2 pin Graphics power connector: 6 pin and 8 pin Other connectors: 4 x SATA, 2 x Molex</p>
OPERATING SYSTEM	<p>The system comes without an operating system installed. Compatibility: Windows 10/11, Linux 64bit</p>
PROCESSOR SUPPORT	<p>LGA 1200 Socket supports Intel® Core® i3/i5/i7/i9, Pentium, and Celeron processors Supports 10th and 11th generation Intel Core processors (code name Comet Lake-S and Rocket Lake-S) in 14++ nm process technology, supports Intel Xeon W series processors Max supported processor power consumption (TDP): 125W Up to 10 CPU cores, 20 threads and 20 MB of L3 cache Does not support the unlock function of Intel K-series processors The processor integrates PCI-Express, the memory controller, and graphics engine on the same die (performance features depend on the processor type) Processors with "F" identifier does not support integrated graphics [2]* Please refer to the support list for more detailed processor information at global.shuttle.com</p>
SYSTEM COOLING	<p>Shuttle I.C.E. (Integrated Cooling Engine) advanced heatpipe cooling technology, linear-controlled 92 mm fan Silent X cooling and noise reduction technology with Active Airflow</p>
MEMORY SUPPORT	<p>4 x 288 pin slots, Supports DDR4 2666/2933/3200 MHz memory at 1.2V Supports Dual Channel mode, Supports a max. of 32GB per DIMM, up to 128GB total DDR4 clock frequency depends on the processor used:</p> <p>11th Gen "Rocket Lake" CPU supports DDR4-3200 Other 10th Gen CPUs support DDR4-2666 10th Gen Core i7/i9 CPU supports DDR4-2933</p>
PCI-E SLOTS	<p>1 x PCI-Express x16 v4.0 slot (supported with 10th Gen "Comet Lake" processors) 1 x PCI-Express x4 v3.0 slot, open-ended Supports dual slot (double width) graphic cards (occupies the second PCI-Express slot) 6 pin and 8 pin power connector for graphic card [4]*, max size for graphic card 280 x 120 x 40 mm (L x H x D)</p>
SUPPORTS INTEL® vPRO™ AND AMT	<p>Intel® vPro™ is a brand name for a specific set of management and security technologies. Intel® Active Management Technology (AMT) is a subset of Intel vPro and allows remote management of PCs, even in power-off mode or with non-functional operating systems. You can audit, repair, and restore AMT-based platforms in a LAN.</p> <p>(Note: Intel vPro requires appropriate software and processors)</p> <p>The Intel® MEBX configuration user interface can be accessed after pressing CTRL-P at the beginning of a boot process. Only Intel Xeon or certain Core i5/i7/i9 processors support the Intel vPro® feature. Only the Intel i219 network chip supports the Intel vPro® function. Use the second LAN port from the left for this purpose.</p>

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TPM MODULE	Hardware Trusted Platform Module 2.0							
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 or SATA v3.0 (supports SATA v3.0 with 10th Gen CPU) -PCI-Express Gen. 3.0 X4, supports NVMe or SATA v3.0 <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>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 (with optional WLN-M accessory)</p>							
INTEGRATED GRAPHICS	<p>Intel UHD graphics function features depend on the processor type used [2]*</p> <p>This model has three video outputs that supports 2160p/60 Hz UHD resolution:</p> <ul style="list-style-type: none"> -1 x HDMI v2.0b (only HDMI v1.4b with 10 Gen "Comet Lake" processors) -2 x DisplayPort v1.4 <p>Supports displays with 4K Ultra HD resolution at 3840 x 2160 (60 Hz)</p> <p>Supports three independent displays with integrated graphics function</p> <p>Supports more displays in combination with a discrete graphics card</p> <p>Hardware video decoding/encoding</p> <p>DisplayPort and HDMI supports multi-channel digital audio over the same cable</p>							
HD AUDIO	<p>Realtek ALC897, 5.1 channel</p> <p>Three analog audio connectors (3.5 mm) on the back panel:</p> <p>Analog: Line-in (blue), Line-out (green), microphone input (pink)</p> <p>shared with 5.1 line-out: (front, rear, center/bass)</p> <p>Front panel: microphone input and headphone output (line-out)</p>							
NETWORK PORTS	<p>Supports four RJ45 LAN ports w/ LED:</p> <table border="0"> <tr> <td>Port 1 + 2: Intel i210AT/i219LM</td> <td>Port 3 + 4: Realtek 8125b</td> </tr> <tr> <td>Supports 10/100/1000 MB/s transfer rate</td> <td>Supports 10/100/1000/2500 MB/s transfer rate</td> </tr> <tr> <td>(LED lights green/orange at 100M/1G speed)</td> <td>(LED lights green/orange at 1G/2.5G speed)</td> </tr> </table> <p>Supports 10/100/1000 MB/s operation</p> <p>Supports Wake-on-LAN, Supports Teaming Mode [3]*</p> <p>Supports network boot by Preboot eXecution environment (PXE)</p>		Port 1 + 2: Intel i210AT/i219LM	Port 3 + 4: Realtek 8125b	Supports 10/100/1000 MB/s transfer rate	Supports 10/100/1000/2500 MB/s transfer rate	(LED lights green/orange at 100M/1G speed)	(LED lights green/orange at 1G/2.5G speed)
Port 1 + 2: Intel i210AT/i219LM	Port 3 + 4: Realtek 8125b							
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(LED lights green/orange at 100M/1G speed)	(LED lights green/orange at 1G/2.5G speed)							
DRIVE BAYS	4 x 3.5" (internal); Using the optional accessory PHD3, 2 x 2.5" drives can be installed into one 3.5" bay							
SATA CONNECTORS	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							
FRONT PANEL CONNECTORS	Microphone input Headphone output 1 x USB 3.2 Gen 1 (Type-C) 3 x USB 3.2 Gen 1 (Type-A)	Power button Power indicator (Blue LED) Hard disk drive indicator (Yellow LED)						
BACK PANEL CONNECTORS	HDMI 2.0 x 1 (HDMI 1.4b for 10th Gen) DisplayPort v1.4 x 2 [1]* USB 3.2 Gen 2 x 4 (Type-A) USB 2.0 x 4 (Type-A) Gigabit LAN RJ45 x 2 (i210AT + i219LM) 2.5Gb LAN x 2 (8125b)	Clear CMOS button Audio line-in Audio line-out Microphone input WLAN antenna holes x 3 (optional) Serial RS232 port (optional, H-RS232 accessory)						
OTHER CONNECTORS (ONBOARD)	USB 2.0 x 1 (4-pin header) RS232 x 1 (2x5 pin) for optional H-RS232	Fan connectors x 2 (4 pin header) Occupied front headers for USB, audio, buttons, LEDs						
INCLUDED ACCESSORIES	XPC installation guide Driver DVD Serial ATA cables x 2 Screw pack	AC Power Cord (with protective earth contacts) Protector cap for CPU socket (don't use the cap if heatpipe/fan is mounted) Thermal paste						

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OPTIONAL ACCESSORIES	Drive adapter for 2.5" drives (PHD3) Adapter for RS232 port (H-RS232) 850W power supply	WLAN 802.11 a/c + Bluetooth 4.2 w/ antennas (WLN-M/WLN-M1) Adapter cable for external power button (CXP01)
ENVIRONMENTAL CRITERIA	Operating temperature: 0 - 40°C	Humidity: 10 - 90% (non-condensing)
CERTIFICATIONS	EMI: FCC, CE, BSMI, C-Tick Safety: ETL, CB, BSMI	Other: RoHS, Energy Star 5.0, ErP
<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:</p> <p>(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>		

[1] HOW TO CONVERT DISPLAYPORT TO HDMI/DVI

The DisplayPort output can be converted into a HDMI or DVI output using an additional passive adapter cable. The integrated graphics automatically detects the connected display and outputs the appropriate electric signal - either DisplayPort (without an adapter) or HDMI/DVI (with an adapter). However, a monitor with a DisplayPort connector cannot be connected to the HDMI port with a simple passive adapter.

[2] INTEGRATED GRAPHICS IS OPTIONAL FOR SOME PROCESSORS

Processors with model numbers ending with "F" (like Intel Core i5-11600F) do not support integrated graphics. In cases of these processors, a discrete PCI-E graphics card is mandatory.

[3] TEAMING MODE

The teaming function allows you to group both the available network adapters together to function as a single adapter to enable load balancing and failover. You can download the driver from the Intel website.

[4] ONLINE POWER CALCULATOR

The PCI-Express x16 slot provides a maximum of 75 watts to the graphics card, plus 75 watts and 150 watts from the 6-pin and 8-pin connector of the power supply - the power consumption of the graphics card must not exceed 300 watts. The processor may have a maximum TDP of 125 watts. If powerful PC components are used, then check with the "Power Supply Calculator" whether the built-in 500 watt power supply supports this configuration, see: <http://global.shuttle.com/support/power>. Please also refer to the support list for detailed processor and graphics cards support information at <http://global.shuttle.com>.

BIOS DOWNLOADS: <https://global.shuttle.com/products/productsDownload?productId=2623>

SUPPORT LIST: <https://global.shuttle.com/products/productsSupportList?productId=2623>

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

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

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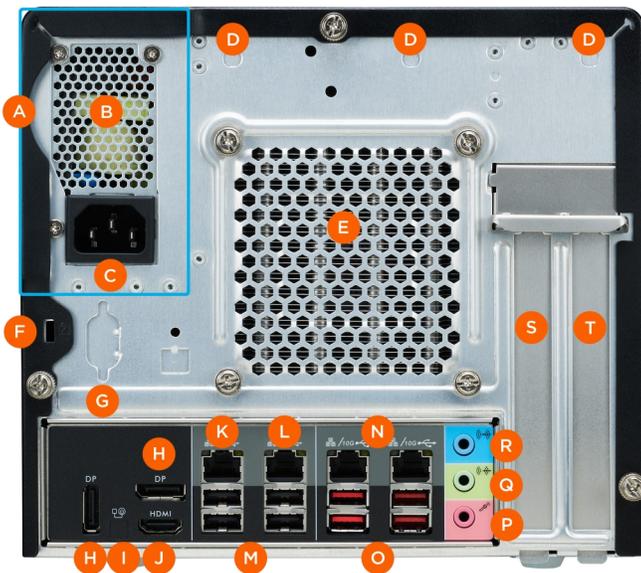
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Front View



- 1 Hard disk LED
- 2 Power LED
- 3 Power button
- 4 USB 3.2 Gen 1 ports x 3 (Type-A)
- 5 Microphone input
- 6 Headphone output
- 7 USB 3.2 Gen 1 x 1 (Type-C)

Back View



- A Power supply
- B Power supply fan
- C AC power connector
- D Antenna hole x 3
- E Heatpipe cooling system
- F Kensington Lock
- G Optional COM port (RS232)
- H DisplayPort 1.4 output x 2
- I Clear CMOS button
- J HDMI 2.0/1.4b output*
- K Gigabit LAN port (Intel i210AT)
- L Gigabit LAN port (Intel i219LM)**
- M USB 2.0 x 4 (Type-A)
- N 2.5Gb LAN (Realtek 8125b) x 2
- O USB 3.2 Gen 2 x 4 (Type-A)
- P Microphone input
- Q Audio line-out
- R Audio line-in
- S PCI-E X16 slot
- T PCI-E X4 slot

*HDMI 1.4b with 10th Gen "Comet Lake" processor **Supports Intel vPro/AMT

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**SUPPORTS INTEL® 10TH AND 11TH GENERATION PROCESSORS**

The SW580R8 supports Intel® 10th/11th Generation (Comet Lake-S/Rocket Lake-S) Core™ i3/i5/i7/i9, Pentium®, and Celeron® 125W processors. With new processors up to 10 cores, the platform supports up to 128 GB of DDR4-3200* memory.

*DDR4 clock frequency depends on processor: 11th Gen “Rocket Lake” supports DDR4-3200, 10th Gen “Comet Lake” Core i7/i9 CPUs supports DDR4-2933, other 10th Gen CPUs supports DDR4-2666

**SUPPORTS PCI-E EXPANSION CARDS**

PCI-E X16 4.0 and PCI-E X4 3.0 slots are provided for use with multi-display graphic cards, monitor cards, RAID cards, professional sound cards and more.

**QUAD LAN DESIGN**

The SW580R8 is equipped with Intel® 1 GbE LAN and Realtek 2.5 GbE LAN as a speed-up and backup solution for workstation related applications to strengthen security and efficiency of large data transfers.

**SUPPORTS INTEL® vPRO™ PLATFORM**

Intel® vPro™ is a key feature for business-class performance, security features, manageability, and platform stability. This allows for remote management of PCs in power-off mode or with non-functional operating systems to audit, repair, and restore AMT-based platforms in a LAN (requires appropriate software and processors).

**INTEGRATED COOLING**

Shuttle's I.C.E. heat-pipe cooling technology delivers efficient cooling and is exceptionally quiet to ensure proper airflow inside the case.

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ACCESSORY	CXP01
DESCRIPTION	For Shuttle models with a connector for an external power button, this 2-meter cable includes fitting connections that only requires a push button switch.
PORTS	Dual head connector: 2.54 mm pitch Two female crimp contact pins, tin-plated Outer diameter: 6.5 mm Two-pole cable: 2 x 0.34 mm
REMARKS	-Cable provides tin-plated leads for a push button switch -Connection to the external power button can be screw-type or soldering



ACCESSORY	H-RS232
DESCRIPTION	With the help of this adapter, a serial RS232 port can be equipped in several XPCs. A sub-D connector is added to the back panel and is connected to the serial interface on the motherboard.
PORTS	External: Sub-D, 9 pins, male Internal: 10 pin (2x5), female



ACCESSORY	PHD3
DESCRIPTION	The PHD3 allows for installation of up to two 2.5" HDD/SSD into a larger 3.5" drive bay. With a second PHD3, up to four 2.5" drives can be installed (4th drive can only be installed in XPCs of the J & R series)
REMARKS	Please check number of available SATA data and power connectors. Current XPC models usually offer four SATA data connectors and three SATA power connectors.



ACCESSORY	WLN-M/WLN-M1
DESCRIPTION	The WLN-M/WLN-M1 wireless LAN kit can be used to equip XPC cube and slim series models with wireless LAN. WLN-M: 802.11 n/ac (2.4/5 GHz), supports Bluetooth 4.0 WLN-M1: 802.11 n/ac/ax (2.4/5 GHz), supports Bluetooth 5.2
ITEMS INCLUDED	M.2 2230 WLAN card, XPC slim antenna cables x 2, XPC cube antenna cables x 2, Dipole antennas x 2, Quick guide, Driver DVD (DVD with WLN-M)
OS SUPPORT	WLN-M: Windows 7, Windows 8.1, Windows 10, Linux (32/64 bit) WLN-M1: Windows 10, Windows 11, Linux (64 bit)

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SH570R8 vs SW580R8

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MODEL	SH570R8	SW580R8
CHIPSET	Intel H570	Intel W580
PROCESSOR SUPPORT	LGA 1200, max TDP 125W 14nm Coffee Lake (10th/11th Gen Core CPU) Intel® Core™ i3/i5/i7/i9, Pentium, Celeron Intel® Optane™ Memory Technology support	LGA 1200, max TDP 125W 14nm++ Comet Lake/Rocket Lake (10th/11th Gen Core CPU) Intel® Core™ i3/i5/i7/i9, Pentium, Celeron Intel® vPro™/AMT support Supports Intel® Xeon® W series processors
MEMORY	4 x 32GB DDR4 3200 MHz max	4 x 32GB DDR4 3200 MHz max
PCI-E SLOTS	(1) PCI-E X16 v4.0 (1) PCI-E X4 v3.0	(1) PCI-E X16 v4.0 (1) PCI-E X4 v3.0
VIDEO OUTPUT	HDMI 2.0b + DisplayPort 1.4, Supports triple independent displays, Supports 4K Ultra HD, DirectX 12	HDMI 2.0b* + DisplayPort 1.4, Supports triple independent displays, Supports 4K Ultra HD, DirectX 12
AUDIO	Realtek ALC897, 5.1 channel HD audio	Realtek ALC897, 5.1 channel HD audio
ETHERNET	Intel i210AT + i219LM 10/100/1000 MB/s operation Supports Wake on LAN function Supports Teaming function	Intel i210AT/i219LM (10/100/1000 MB/s operation) Realtek 8125b (10/100/1000/2500 MB/s operation) Supports Wake on LAN function Supports Teaming function
SATA ONBOARD	SATA 6G x 4	SATA 6G x 4
FRONT PANEL	Power button with LED, HDD LED, MIC-in, Headphone out, USB 3.2 Gen 1 x 1 (Type-C), USB 3.2 Gen 1 x 3 (Type-A)	Power button with LED, HDD LED, MIC-in, Headphone out, USB 3.2 Gen 1 x 1 (Type-C), USB 3.2 Gen 1 x 3 (Type-A)
BACK PANEL	HDMI 2.0b x 1*, DisplayPort 1.4 x 2 USB 3.2 Gen 2 x 4, USB 2.0 x 4, Gigabit LAN (Intel i210AT + i219LM) x 2 Audio x 3, Clear CMOS button	HDMI 2.0b x 1*, DisplayPort 1.4 x 2 USB 3.2 Gen 2 x 4, USB 2.0 x 4, Gigabit LAN (Intel i210AT/i219LM) x 2 + 2.5Gb (8125b) LAN x 2 Audio x 3, Clear CMOS button
DRIVE BAYS	(4) 3.5" HDD bay	(4) 3.5" HDD bay
POWER	500W 80 PLUS Gold	500W 80 PLUS Gold
OPTIONAL ACCESSORIES	RS232 port (H-RS232) WLAN kit 802.11 ac + Bluetooth 4.2 (WLN-M) 2.5" drive rack (PHD3) Adapter cable for external power button (CXP01)	RS232 port (H-RS232) WLAN kit 802.11 ac + Bluetooth 4.2 (WLN-M/WLN-M1) 2.5" drive rack (PHD3) Adapter cable for external power button (CXP01) 850W power supply (PC850)
EXPANSION SLOT	M.2 2280M slot M.2 2230E slot SATA and PCI-E V3 X4 (NVMe support)	M.2 2280M slot M.2 2230E slot SATA and PCI-E V3 X4 + PCI-E V4 X4 (NVMe support)
OS SUPPORT	Windows 10, Linux 64 bit	Windows 10/11 , Linux 64 bit

*HDMI 1.4b with 10th Gen "Comet Lake" processor

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10th Generation Intel Core Desktop Processors (LGA 1200 14 nm Comet Lake-S/Comet Lake Refresh)

Name	Model	Cores/Threads	CPU Clock	Turbo Clock	Cache	TDP	Memory	vPRO/AMT Support	Graphics
Core i9	10900K	10/20	3.7 GHz	5.1 GHz	20 MB	125W	DDR4-2933	-	UHD 630 (1.2 GHz)
	10900KF	10/20	3.7 GHz	5.1 GHz	20 MB	125W	DDR4-2933	-	-
	10900	10/20	2.8 GHz	5.0 GHz	20 MB	65W	DDR4-2933	-	UHD 630 (1.2 GHz)
	10900F	10/20	2.8 GHz	5.0 GHz	20 MB	65W	DDR4-2933	-	-
	10900T	10/20	1.9 GHz	4.5 GHz	20 MB	35W	DDR4-2933	-	UHD 630 (1.2 GHz)
	10850K	10/20	3.6 GHz	5.0 GHz	20 MB	125W	DDR4-2933	-	UHD 630 (1.2 GHz)
Core i7	10700K	8/16	3.8 GHz	5.0 GHz	16 MB	125W	DDR4-2933	Yes	UHD 630 (1.2 GHz)
	10700KF	8/16	3.8 GHz	5.0 GHz	16 MB	125W	DDR4-2933	-	-
	10700	8/16	2.9 GHz	4.7 GHz	16 MB	65W	DDR4-2933	Yes	UHD 630 (1.2 GHz)
	10700F	8/16	2.9 GHz	4.7 GHz	16 MB	65W	DDR4-2933	-	-
	10700T	8/16	2.0 GHz	4.4 GHz	16 MB	35W	DDR4-2933	Yes	UHD 630 (1.2 GHz)
Core i5	10600K	6/12	4.1 GHz	4.8 GHz	12 MB	125W	DDR4-2666	Yes	UHD 630 (1.2 GHz)
	10600KF	6/12	4.1 GHz	4.8 GHz	12 MB	125W	DDR4-2666	Yes	-
	10600	6/12	3.3 GHz	4.8 GHz	12 MB	65W	DDR4-2666	-	UHD 630 (1.2 GHz)
	10600T	6/12	2.4 GHz	4.0 GHz	12 MB	35W	DDR4-2666	Yes	UHD 630 (1.2 GHz)
	10505	6/12	3.2 GHz	4.6 GHz	12 MB	65W	DDR4-2666	Yes	UHD 630 (1.2 GHz)
	10500	6/12	3.1 GHz	4.5 GHz	12 MB	65W	DDR4-2666	Yes	UHD 630 (1.15 GHz)
	10500T	6/12	2.3 GHz	3.8 GHz	12 MB	35W	DDR4-2666	Yes	UHD 630 (1.1 GHz)
	10400	6/12	2.9 GHz	4.3 GHz	12 MB	65W	DDR4-2666	-	UHD 630 (1.1 GHz)
	10400F	6/12	2.9 GHz	4.3 GHz	12 MB	65W	DDR4-2666	-	-
	10400T	6/12	2.0 GHz	3.6 GHz	12 MB	35W	DDR4-2666	-	UHD 630 (1.1 GHz)
Core i3	10325	4/8	3.9 GHz	4.7 GHz	8 MB	65W	DDR4-2666	-	UHD 630 (1.15 GHz)
	10320	4/8	3.8 GHz	4.6 GHz	8 MB	65W	DDR4-2666	-	UHD 630 (1.15 GHz)
	10305	4/8	3.8 GHz	4.5 GHz	8 MB	65W	DDR4-2666	-	UHD 630 (1.15 GHz)
	10305T	4/8	3.8 GHz	4.5 GHz	8 MB	65W	DDR4-2666	-	UHD 630 (1.1 GHz)
	10300	4/8	3.7 GHz	4.4 GHz	8 MB	65W	DDR4-2666	-	UHD 630 (1.15 GHz)
	10300T	4/8	3.0 GHz	3.9 GHz	8 MB	35W	DDR4-2666	-	UHD 630 (1.1 GHz)
	10105F	4/8	3.7 GHz	4.4 GHz	6 MB	65W	DDR4-2666	-	-
	10105	4/8	3.7 GHz	4.4 GHz	6 MB	65W	DDR4-2666	-	UHD 630 (1.1 GHz)
	10105T	4/8	3.0 GHz	3.9 GHz	6 MB	35W	DDR4-2666	-	UHD 630 (1.1 GHz)
	10100	4/8	3.6 GHz	4.3 GHz	6 MB	65W	DDR4-2666	-	UHD 630 (1.1 GHz)
	10100F	4/8	3.6 GHz	4.3 GHz	6 MB	65W	DDR4-2666	-	-
	10100T	4/8	3.0 GHz	3.8 GHz	6 MB	35W	DDR4-2666	-	UHD 630 (1.1 GHz)
Pentium Gold	G6605	2/4	4.3 GHz	-	4 MB	58W	DDR4-2666	-	UHD 630 (1.1 GHz)
	G6600	2/4	4.2 GHz	-	4 MB	58W	DDR4-2666	-	UHD 630 (1.1 GHz)
	G6505	2/4	4.2 GHz	-	4 MB	58W	DDR4-2666	-	UHD 630 (1.1 GHz)
	G6500	2/4	4.1 GHz	-	4 MB	58W	DDR4-2666	-	UHD 630 (1.1 GHz)
	G6500T	2/4	3.5 GHz	-	4 MB	35W	DDR4-2666	-	UHD 630 (1.05 GHz)
	G6405	2/4	4.1 GHz	-	4 MB	58W	DDR4-2666	-	UHD 610 (1.05 GHz)
	G6405T	2/4	3.5 GHz	-	4 MB	35W	DDR4-2666	-	UHD 610 (1.05 GHz)
	G6400	2/4	4.0 GHz	-	4 MB	58W	DDR4-2666	-	UHD 610 (1.05 GHz)
	G6400T	2/4	3.4 GHz	-	4 MB	35W	DDR4-2666	-	UHD 610 (1.05 GHz)

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CUBE PC

10th Generation Intel Core Desktop Processors (LGA 1200 14 nm Comet Lake-S/Comet Lake Refresh) cont.

Name	Model	Cores/Threads	CPU Clock	Turbo Clock	Cache	TDP	Memory	vPRO/AMT support	Graphics
Celeron	G5925	2/2	3.6 GHz	-	4 MB	58W	DDR4-2666	-	UHD 610 (1.05 GHz)
	G5920	2/2	3.5 GHz	-	2 MB	58W	DDR4-2666	-	UHD 610 (1.05 GHz)
	G5905	2/2	3.5 GHz	-	4 MB	58W	DDR4-2666	-	UHD 610 (1.05 GHz)
	G5905T	2/2	3.3 GHz	-	4 MB	35W	DDR4-2666	-	UHD 610 (1.05 GHz)
	G5900	2/2	3.4 GHz	-	2 MB	58W	DDR4-2666	-	UHD 610 (1.05 GHz)
	G5900T	2/2	3.2 GHz	-	2 MB	35W	DDR4-2666	-	UHD 610 (1.05 GHz)

11th Generation Intel Core Desktop Processors (LGA 1200 14 nm Rocket Lake-S)

Name	Model	Cores/Threads	CPU Clock	Turbo Clock	Cache	TDP	Memory	vPRO/AMT support	Graphics
Core i9	11900K	8/16	3.5 GHz	5.3 GHz	16 MB	125W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
	11900KF	8/16	3.5 GHz	5.3 GHz	16 MB	125W	DDR4-3200	-	-
	11900	8/16	2.5 GHz	5.2 GHz	16 MB	65W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
	11900F	8/16	2.5 GHz	5.2 GHz	16 MB	65W	DDR4-3200	-	-
	11900T	8/16	1.5 GHz	4.9 GHz	16 MB	35W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
Core i7	11700K	8/16	3.6 GHz	5.0 GHz	16 MB	125W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
	11700KF	8/16	3.6 GHz	5.0 GHz	16 MB	125W	DDR4-3200	-	-
	11700	8/16	2.5 GHz	4.9 GHz	16 MB	65W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
	11700F	8/16	2.5 GHz	4.9 GHz	16 MB	65W	DDR4-3200	-	-
	11700T	8/16	1.4 GHz	4.6 GHz	16 MB	35W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
Core i5	11600K	6/12	3.9 GHz	4.9 GHz	12 MB	125W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
	11600KF	6/12	3.9 GHz	4.9 GHz	12 MB	125W	DDR4-3200	-	-
	11600	6/12	2.8 GHz	4.8 GHz	12 MB	65W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
	11600T	6/12	1.7 GHz	4.1 GHz	12 MB	35W	DDR4-3200	-	UHD 750 (1.3 GHz)
	11500K	6/12	3.9 GHz	4.9 GHz	12 MB	95W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
	11500	6/12	2.7 GHz	4.6 GHz	12 MB	65W	DDR4-3200	Yes	UHD 750 (1.3 GHz)
	11500T	6/12	1.5 GHz	3.9 GHz	12 MB	35W	DDR4-3200	Yes	UHD 750 (1.2 GHz)
	11400	6/12	2.6 GHz	4.4 GHz	12 MB	65W	DDR4-3200	-	UHD 730 (1.3 GHz)
	11400F	6/12	2.6 GHz	4.4 GHz	12 MB	65W	DDR4-3200	-	-
11400T	6/12	1.3 GHz	3.7 GHz	12 MB	35W	DDR4-3200	-	UHD 730 (1.2 GHz)	

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10th Generation Intel Xeon W-Series Processors (LGA 1200 14 nm Comet Lake)

Name	Model	Cores/Threads	CPU Clock	Turbo Clock	Cache	TDP	Memory	vPRO/AMT support	Graphics
Xeon®	W-1290TE	10	1.8 GHz	4.5 GHz	20 MB	35W	DDR4-2933 ECC	Yes	HD 630 (1.2 GHz)
	W-1290P	10	3.7 GHz	5.3 GHz	20 MB	125W	DDR4-2933 ECC	Yes	HD P630 (1.2 GHz)
	W-1290	10	3.2 GHz	5.2 GHz	20 MB	80W	DDR4-2933 ECC	Yes	HD P630 (1.2 GHz)
	W-1290T	10	1.9 GHz	4.7 GHz	20 MB	35W	DDR4-2666 ECC	Yes	HD P630 (1.2 GHz)
	W-1290E	10	3.5 GHz	4.8 GHz	20 MB	95W	DDR4-2933 ECC	Yes	HD 630 (1.2 GHz)
	W-1270	8	3.4 GHz	5.0 GHz	16 MB	80W	DDR4-2933 ECC	Yes	HD P630 (1.2 GHz)
	W-1270P	8	3.8 GHz	5.1 GHz	16 MB	125W	DDR4-2933 ECC	Yes	HD P630 (1.2 GHz)
	W-1270E	8	3.4 GHz	4.8 GHz	16 MB	80W	DDR4-2933 ECC	Yes	HD 630 (1.2 GHz)
	W-1270TE	8	2.0 GHz	4.4 GHz	16 MB	35W	DDR4-2933 ECC	Yes	HD 630 (1.15 GHz)
	W-1250	6	3.3 GHz	4.7 GHz	12 MB	80W	DDR4-2666 ECC	Yes	HD P630 (1.2 GHz)
	W-1250P	6	4.1 GHz	4.8 GHz	12 MB	125W	DDR4-2666 ECC	Yes	HD P630 (1.2 GHz)
	W-1250E	6	3.5 GHz	4.7 GHz	12 MB	80W	DDR4-2666 ECC	Yes	HD 630 (1.2 GHz)
	W-1250TE	6	2.4 GHz	3.8 GHz	12 MB	35W	DDR4-2666 ECC	Yes	HD 630 (1.15 GHz)

11th Generation Intel Xeon W-Series Processors (LGA 1200 14 nm Rocket Lake)

Name	Model	Cores/Threads	CPU Clock	Turbo Clock	Cache	TDP	Memory	vPRO/AMT support	Graphics
Xeon®	W-1390P	8	3.5 GHz	5.3 GHz	16 MB	125W	DDR4-3200 ECC	Yes	UHD P750 (1.3 GHz)
	W-1390T	8	1.5 GHz	4.9 GHz	16 MB	35W	DDR4-3200 ECC	Yes	UHD P750 (1.3 GHz)
	W-1390	8	2.8 GHz	5.2 GHz	16 MB	80W	DDR4-3200 ECC	Yes	UHD P750 (1.3 GHz)
	W-1370	8	2.9 GHz	5.1 GHz	16 MB	80W	DDR4-3200 ECC	Yes	UHD P750 (1.3 GHz)
	W-1370P	8	3.6 GHz	5.2 GHz	16 MB	125W	DDR4-3200 ECC	Yes	UHD P750 (1.3 GHz)
	W-1350P	6	4.0 GHz	5.1 GHz	12 MB	125W	DDR4-3200 ECC	Yes	UHD P750 (1.3 GHz)
	W-1350	6	3.3 GHz	5.0 GHz	12 MB	80W	DDR4-3200 ECC	Yes	UHD P750 (1.3 GHz)

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