

DH470/DH470 TPM

SLIM PC



PROCESSOR	Supports Intel® Comet Lake Core® i3/i5/i7/i9 series, Pentium, and Celeron® LGA 1200 65W processors		
MEMORY	2 x DDR4 2666/2933 MHz Supports dual channel up to 64GB (32GB x 2)		
VIDEO GRAPHICS	Intel HD Graphics		
VIDEO OUTPUT	HDMI 2.0a + DisplayPort 1.2, Supports three independent displays, Supports 4K Ultra HD		
AUDIO	Realtek ALC662 5.1 channel HD audio		
ETHERNET	Intel i210-AT x 2 Dual LAN 10/100/1000 MB/s operation	Supports Wake on LAN function Supports Teaming mode	
STORAGE INTERFACE	SATA 6 GB/s		
ONBOARD CONNECTORS	(1) 4 pin fan connector (1) analog VGA output (2) serial interface (COM)	(1) CMOS battery connector (1) USB 2.0 (4-pin) for optional WWN03 (1) Jumper for power on after power fail (hardware)	
FRONT PANEL	(1) Power Button (1) Power LED (1) HDD LED (2) USB 3.2 Gen 1 (Type-C x 1)	(2) USB 3.2 Gen 2 (1) External microphone jack 1/8" (1) External headphone jack 1/8" (1) SD Card Reader	
BACK PANEL	(1) HDMI 2.0a (2) DisplayPort 1.2 Optional VGA connector (2) USB 3.2 Gen 1 (2) USB 3.2 Gen 2 (2) Gigabit LAN ports w/ LED	(1) RS232/RS422/RS485 (1) RS232 (1) External 4 pin header (2) Wireless Antenna holes (2) Kensington Lock (1) DC-in	
DRIVE BAYS	(1) 2.5" HDD/SSD bay		
DIMENSIONS	7.5(L) x 6.5(W) x 1.7(H) inches		
POWER	Input: 100 - 240V AC Output: 19V/4.74A DC	90W power supply	
ACCESSORIES	Quick Guide Screw package Power cord Driver DVD	VESA mount VESA mount quick guide Thermal grease HDD screw pack	
EXPANSION SLOT	(1) M2. MAX to 2280 Type M	(1) M.2 MAX to 2230 Type E key socket	Hardware TPM option available
OS SUPPORT	Windows 10/11 64 bit, Linux		

BIOS DOWNLOADS: <http://global.shuttle.com/products/productsDownload?productId=2493>

SUPPORT LIST: <http://global.shuttle.com/products/productsSupportList?productId=2493>

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



- | | |
|---------------------|----------------------------------|
| 1 Microphone input | 5 Power Button |
| 2 Headphones output | 6 SD Card Reader |
| 3 Power LED | 7 USB 3.2 Gen 1 x 2 (Type C x 1) |
| 4 Hard Disk LED | 8 USB 3.2 Gen 2 x 2 |

Back View



- | | |
|----------------------------|-------------------------|
| A WLAN antenna hole x 2 | F RJ45 Gigabit LAN x 2 |
| B DC power input | G RS232 (COM2)* |
| C HDMI 2.0a video output | H USB 3.2 Gen 2 x 2 |
| D DisplayPort 1.2 x 2 | I USB 3.2 Gen 1 x 2 |
| E RS232/RS422/RS485 (COM1) | J External 4-pin header |

*Optional VGA port for analog displays

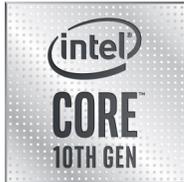


Kensington lock hole on left and right side

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SLIM PC



INTEL® 10TH GENERATION PROCESSORS

Equipped with a LGA 1200 socket, the DH470/DH470 TPM supports Intel® 10th Generation Celeron®, Pentium®, and Core® i3/i5/i7/i9 65W processors. Support for up to 64GB DDR4 2666/2933 MHz memory, integrated UHD graphics, and PCI-E controllers provide outstanding graphics performance.



VESA MOUNTABLE

The supplied 75/100mm VESA mount allows for installation of the DH470/DH470TPM on walls or monitors, for use in company buildings, public institutions, or other industry buildings. With a thickness of 43mm, it allows for versatile integration into hardware systems and well suited for areas with limited space.



4K ULTRA HD WITH TRIPLE DISPLAY SUPPORT*

The DH470/DH470 TPM features one HDMI 2.0a and two DisplayPort 1.2 outputs built-in to support 4K Ultra HD resolution, providing dynamic visualization for multi-tasking and digital signage applications.

*Optional VGA port for analog displays (replaces a COM port)



SMART FAN DESIGN

A heat-pipe cooling system with smart fan design can be set in the BIOS for faster fan speed automatically when CPU temperature increases for high stability and low noise during long term operation.



HARDWARE TPM

With TPM 2.0*, the DH470 TPM keeps sensitive information secure and protected. A hardware TPM option is available for the DH470.

*TPM 2.0 is a secure crypto-processor technology that aids in generating, storing, and limiting cryptographic keys

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SLIM PC



ACCESSORY	PS02
DESCRIPTION	The PS02 stand is required for placing 1.3L slim PC models into a vertical orientation.
COMPATIBILITY	DX30, DL10J, DS61, DS81, DH110, DH110SE, DH170, DQ170, DH270, DH310, DH370, DH02U, DH410, DH410S



ACCESSORY	PVG01
DESCRIPTION	The PVG01 equips compatible slim PCs with an analog VGA output, For slim 1L PCs, this means only one serial interface (COM 1) can be used after installation.
SPECIFICATIONS	Length: 6.3 inches, Back panel connector: 15 pin Mini D-sub female socket, Internal connector: Subminiature 2x10 pin female
REMARKS	Slim PCs with H81/H110 chipsets can support up to two displays at the same time, so only two out of the available video outputs can be used.



ACCESSORY	WLN-M
DESCRIPTION	The WLN-M wireless LAN kit can be used to equip XPC cube and slim series models with the wireless LAN standard 802.11 n/ac at 2.4/5 GHz. The combo device supports Bluetooth 4.0.
REMARKS	M.2 2230 (NGFF) WLAN card, Antenna cable (XPC slim) x 2, Antenna cable (XPC cube) x 2, Dipole antenna x 2, Quick Guide, Driver DVD
OS SUPPORT	Windows 7, Windows 8.1, Windows 10, Linux (32/64 bit)

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CHASSIS	<p>Black slim type metal chassis</p> <p>Kensington lock slots on the sides as part of anti-theft system</p> <p>Dimensions: 7.5 (L) x 6.5 (W) x 1.7 (H) inches</p> <p>Weight: 2.8 LBS (net) / 4.6 LBS (gross)</p>
MAINBOARD AND CHIPSET	<p>Shuttle form factor proprietary design for XPC DH470</p> <p>Chipset: Intel® H470</p> <p>Supports hardware monitoring and watch dog functionality</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-EPROOM</p> <p>Supports Firmware-TPM (fTPM) v2.0 [11]*</p> <p>Supports boot up from external USB flash memory</p> <p>Supports Unified Extensible Firmware Interface (UEFI)</p> <p>Supports power on after power failure [7]*</p>
POWER SUPPLY	<p>External 90W power adapter (fanless)</p> <p>AC input voltage: 100 - 240V, 50 - 60 Hz</p> <p>Output: 19V DC 4.74A, max 90W</p> <p>DC connector: 5.5/2.5mm (outer/inner diameter)</p>
OPERATING SYSTEM	<p>The system comes without an operating system installed.</p> <p>Compatibility: Windows 10, Windows 11, Linux 64bit</p>
PROCESSOR SUPPORT	<p>LGA 1200 Socket supports Intel® Core® i3/i5/i7/i9, Pentium, and Celeron processors</p> <p>Supports the 10th generation Intel Core processors, codename "Comet Lake-S (Refresh)"</p> <p>Max supported processor power consumption (TDP): 65W</p> <p>14nm process technology, up to 10 cores and 20 threads, up to 20MB of L3 cache</p> <p>Not compatible with older LGA 1151v2 socket processors</p> <p>The unlock function for Intel® K-Series processors is not supported with this model</p> <p>Supports processors with integrated graphics only [10]*</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> <p>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, two 60 mm fans</p>
MEMORY SUPPORT	<p>2 x 260 pin SODIMM slots</p> <p>Supports DDR4 2666/2933 MHz memory (PC4-21300/23466) at 1.2V</p> <p>Supports Dual Channel mode</p> <p>Supports a max. of 32GB per DIMM, up to 64GB total</p> <p>Supports two unbuffered DIMM modules (no ECC or registered)</p> <p>Note: memory clock speed depends on the processor model; Intel Core i9 and i7 series processors supports DDR4-2933 memory speed, while other models support DDR4-2666</p>
DRIVE BAYS	<p>1 x 2.5" drive bay supports one hard disk or SSD drive, max height 12.5 mm</p>
M.2 SLOTS	<p>M.2 2280 M slot provides the following interfaces:</p> <p>PCI-Express Gen 3.0 X4 (supports NVMe), 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).</p> <p>Supports M.2 SSDs with SATA or PCI-Express interface.</p> <p>M.2 2230 E slot provides the following interfaces:</p> <p>PCI-Express v2.0 X1, USB 2.0 interface</p> <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 WLN-M accessory)</p>
AUDIO	<p>Realtek® ALC 662 5.1 channel HD audio</p> <p>Two analog audio connectors (3.5 mm) on the front panel:</p> <p>2 channel line-out (headphones), Microphone input</p> <p>Digital multi-channel audio output (HDMI and DisplayPort)</p>

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INTEGRATED GRAPHICS	<p>Intel HD graphics function features depend on the processor type used, supports DirectX 12 and OpenGL 4.5 This model has two video outputs that supports 1080p/60 and 2160p/60: DisplayPort 1.2 x 2 and HDMI 2.0a x 1</p> <p>Supports displays with 4K Ultra HD resolution at 3840 x 2160 Supports three independent displays with integrate graphics function Supports Blu-Ray playback with HDCP content protection [9]* Hardware video decoding/encoding: H.264, H.265 (8 and 10 bit, encoding via QuickSync), VP9 (10 bit decoding) DisplayPort and HDMI support multi-channel digital audio over the same cable Optional analog VGA video output [4]*</p>	
MULTI-CHANNEL AUDIO	<p>High Definition Audio with Realtek ALC662 codec Two analog audio connectors (3.5mm) on the front panel: -2 channel line-out (headphones), microphone input 5.1 channel Digital Audio via HDMI and DisplayPort outputs</p>	
GIGABIT LAN CONTROLLER	<p>Dual network with two RJ45 ports w/ LEDs, supports Windows 10/11 Desktop OS and Windows Server OS Intel i210-AT Ethernet Controller with MAC, PHY, and PCIe interface Supports 10/100/1000 MB/s operation Supports Wake-on-LAN Supports Teaming mode [5]* Supports network boot by Preboot eXecution environment (PXE)</p>	
SATA CONNECTORS	<p>The mainboard provides one Serial-ATA III interface, max 6GB/s supported Serial-ATA power connector (onboard)</p>	
CARD READER	<p>Integrated card reader supports SD, SDHC, SDXC (up to v3.01) memory flash cards USH-I interface supports up to 104 MB/s (SDR104) transfer speed Supports boot up from SD card, Realtek RTS5227S chip with PCIe chipset interface</p>	
FRONT PANEL CONNECTORS	<p>Microphone input Headphone output (line-out) 2 x USB 3.2 Gen 2 2 x USB 3.2 Gen 1 (Type-A x 1, Type-C x 1)</p>	<p>Power button Power indicator (Blue LED) Hard disk drive indicator (Yellow LED) SD Card Reader</p>
BACK PANEL CONNECTORS	<p>HDMI 2.0a [1]* DisplayPort 1.2 x 2 [2]* VGA connector (optional PVG01) [4]* USB 3.2 Gen 2 x 2 USB 3.2 Gen 1 x 2 Kensington Lock x 2</p>	<p>Clear CMOS connector Gigabit LAN (RJ45) x 2 WLAN antenna holes x 2 RS232 x 2 (1 x RS422/RS485) [3]* DC-input connector for external power adapter (19V±5%)</p>
OTHER CONNECTORS (ONBOARD)	<p>Analog VGA graphics (2x1 pin) [4]* RS232 COM port x 2 Connector for CMOS battery</p>	<p>Fan connectors x 1 (4 pin), one occupied by cooling system Power on after power failure (hardware solution by jumper) [7]* USB 2.0 (4-pin) for optional WWN03 accessory (LTE kit)</p>
INCLUDED ACCESSORIES	<p>XPC installation guide Driver DVD SATA and power cables Heatsink compound</p>	<p>External 90W power adapter with cord VESA mount (75/100mm standard) Screw packs Protector cap for CPU socket (don't use if heatpipe/fan is mounted)</p>
OPTIONAL ACCESSORIES	<p>VGA port adapter (PVG01) [4]* WLAN module (WLN-M/WLN-M1) LTE adapter kit (WWN03) Vertical stand (PS02)</p>	<p>2U rack mount front plate for two slim PCs (PRM01) Adapter cable for external power button (CXP01) DIN-Rail mounting kit (DIR01)</p>
ENVIRONMENTAL CRITERIA	<p>Operating temperature: 0 - 50°C [6]*</p>	<p>Humidity: 10 - 90% (non-condensing)</p>
CERTIFICATIONS	<p>EMI: FCC, CE, BSMI, RCM, VCCI Safety: ETL, CB, BSMI</p>	<p>Other: RoHS, Energy Star, 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) 2004/108/EC relating to electromagnetic compatibility (EMC) (2) 2006/95/EC 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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[1] HDMI OUTPUT

HDMI output supports DVI-D with optional adapter

[2] 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.

[3] SERIAL PORTS

This PC features two serial RS232 ports with 9 pin D-Sub connectors on the back panel (pin 9 is a multi-functional signal). The left COM1 port can also be configured as RS422 and RS485 in the BIOS setup. Based on the Jumper JP1 configuration on the mainboard, it can be configured as Ring Indicator (RI) or external power supply with a voltage level of either 5V or 12V (each COM port can be configured separately; the maximum current is 500 mA per connector).

[4] OPTIONAL VGA CONNECTOR

The mainboard features one analog graphics port (CN6). This 15 pin VGA connector can be lead to the outside of the back panel by using an optional adapter PVG01. Doing so will occupy one serial port (COM) on the back panel.

[5] TEAMING MODE

The teaming function allows for grouping both available network adapters to work as a single adapter. This mode enables load balancing and failover (the driver download can be found here: <https://downloadcenter.intel.com/download/22283/>)

[6] HIGH AMBIENT TEMPERATURE

For high ambient temperature over 40°C, SSDs are strongly recommended instead of hard disk drives (supporting at least 70°C) and rugged SODIMM memory modules for temperature ranges up to 95°C.

[7] POWER ON AFTER POWER FAIL

The BIOS setup provides a "Power-On after Power Fail" function that can be found under "Power Management Configuration". As the name indicates, this function determines the PC's behavior after a power failure: (1) unconditional power on, (2) restore former status, or (3) keep system turned off. This function may fail after short power failures, but the DH470 comes with a hardware based solution in these cases. By removing the Jumper JP2 on the mainboard (behind the power button), the system will start unconditionally once power is supplied.

[8] OPTIONAL ACCESSORY WWN03 (LTE KIT)

The Shuttle WWN03 accessory allows the PC to be upgraded with a LTE/4G function for a mobile network. The LTE card will occupy the 2.5" bay so M.2 SSD will have to be used for mass storage. The LTE/4G card in M.2 3042 format and an activated nano SIM card is not included.

[9] BLU-RAY PLAYBACK

Appropriate software and an external Blu-ray drive is required (not included)

[10] INTEL PROCESSORS WITHOUT INTEGRATED GRAPHICS

Do not use processors with model numbers ending in "F" (eg Intel Core i7-10700F) as they do not support integrated graphics.

[11] TPM FUNCTION

This model features Firmware-TPM (fTPM) v2.0. A hardware TPM chip can be fitted on request if required.

BIOS DOWNLOADS: <https://global.shuttle.com/products/productsDownload?productId=2493>

SUPPORT LIST: <https://global.shuttle.com/products/productsSupportList?productId=2493>

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

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

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DH370 vs DH470

SLIM PC



MODEL	DH370	DH470
CHIPSET	Intel H370	Intel H470
PROCESSOR SUPPORT	LGA 1151v2, max TDP 65W 14nm++ Coffee Lake-S (8th/9th Gen Core CPU) Intel® Core™ i3/i5/i7/i9, Pentium, Celeron	LGA 1200, max TDP 65W 14nm Comet Lake-S (10th Gen Core CPU) Intel® Core™ i3/i5/i7/i9, Pentium, Celeron
MEMORY	2 x 32GB DDR4 2400/2666 MHz max	2 x 32GB DDR4 2666/2933 MHz max
VIDEO OUTPUT	HDMI 2.0a + DisplayPort 1.2 x 2, Supports triple displays, Supports 4K Ultra HD	HDMI 2.0a + DisplayPort 1.2 x 2, Supports triple displays, Supports 4K Ultra HD
AUDIO	Realtek AL662, 5.1 channel HD audio	Realtek AL662, 5.1 channel HD audio
ETHERNET	Intel i211 x 2 10/100/1000 MB/s operation Supports Wake on LAN function Supports Teaming mode	Intel i210-AT x 2 10/100/1000 MB/s operation Supports Wake on LAN function Supports Teaming mode
SATA ONBOARD	SATA 6G x 1	SATA 6G x 1
FRONT PANEL	Power button with LED, HDD LED, MIC-in, Headphone out, SD Card Reader, USB 3.1 Gen 1 x 2, USB 3.1 Gen 2 x 2	Power button with LED, HDD LED, MIC-in, Headphone out, SD Card Reader, USB 3.2 Gen 1 x 2 (Type-A x 1, Type-C x 1), USB 3.2 Gen 2 x 2
BACK PANEL	HDMI 2.0a, DisplayPort 1.2 x 2 USB 3.1 Gen 1 x 2, USB 3.1 Gen 2 x 2 Gigabit LAN (Intel i211) x 2 RS232 + RS232/RS422/RS485 WLAN antenna x 2 (optional) Clear CMOS button Kensington Lock x 2	HDMI 2.0a, DisplayPort 1.2 x 2 USB 3.2 Gen 1 x 2, USB 3.2 Gen 2 x 2 Gigabit LAN (Intel i210-AT) x 2 RS232 + RS232/RS422/RS485 WLAN antenna x 2 (optional) Clear CMOS button Kensington Lock x 2
DRIVE BAYS	(1) 2.5" HDD/SSD bay	(1) 2.5" HDD/SSD bay
OPTIONAL ACCESSORIES	Vertical Stand (PS02) VGA adapter (PVG01) WLAN kit (WLN-M/WLN-M1) Cable for external power button (CXP01) 2U rack mount front plate for two slim PCs (PRM01)	Vertical Stand (PS02) VGA adapter (PVG01) WLAN kit (WLN-M/WLN-M1) Cable for external power button (CXP01) 2U rack mount front plate for two slim PCs (PRM01) Optional LTE kit (WWN03)
EXPANSION SLOT	M.2 2280 M slot M.2 2230 E slot, Supports optional WLAN	M.2 2280 M slot M.2 2230 E slot, Supports optional WLAN Hardware TPM option available
OS SUPPORT	Windows 10/11, Linux 64 bit	Windows 10/11, Linux 64 bit

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

Processors with a TDP > 65W are not supported (marked in red)

Name	Model	Cores/Threads	CPU Clock	Turbo Clock	Smart Cache	TDP	Memory Support	Graphics
Core i9	10900K	10/20	3.7 GHz	5.1 GHz	20 MB	125W	DDR4-2933	UHD 630
	10900KF	10/20	3.7 GHz	5.1 GHz	20 MB	125W	DDR4-2933	None
	10900	10/20	2.8 GHz	5.0 GHz	20 MB	65W	DDR4-2933	UHD 630
	10900F	10/20	2.8 GHz	5.0 GHz	20 MB	65W	DDR4-2933	None
	10900T	10/20	1.9 GHz	4.5 GHz	20 MB	35W	DDR4-2933	UHD 630
	10850K	10/20	3.6 GHz	5.0 GHz	20 MB	125W	DDR4-2933	UHD 630
Core i7	10700K	8/16	3.8 GHz	5.0 GHz	16 MB	125W	DDR4-2933	UHD 630
	10700KF	8/16	3.8 GHz	5.0 GHz	16 MB	125W	DDR4-2933	None
	10700	8/16	2.9 GHz	4.7 GHz	16 MB	65W	DDR4-2933	UHD 630
	10700F	8/16	2.9 GHz	4.7 GHz	16 MB	65W	DDR4-2933	None
	10700T	8/16	2.0 GHz	4.4 GHz	16 MB	35W	DDR4-2933	UHD 630
Core i5	10600K	6/12	4.1 GHz	4.8 GHz	12 MB	125W	DDR4-2666	UHD 630
	10600KF	6/12	4.1 GHz	4.8 GHz	12 MB	125W	DDR4-2666	None
	10600	6/12	3.3 GHz	4.8 GHz	12 MB	65W	DDR4-2666	UHD 630
	10600T	6/12	2.4 GHz	4.0 GHz	12 MB	35W	DDR4-2666	UHD 630
	10500	6/12	3.1 GHz	4.5 GHz	12 MB	65W	DDR4-2666	UHD 630
	10500T	6/12	2.3 GHz	3.8 GHz	12 MB	35W	DDR4-2666	UHD 630
	10400	6/12	2.9 GHz	4.3 GHz	12 MB	65W	DDR4-2666	UHD 630
	10400F	6/12	2.9 GHz	4.3 GHz	12 MB	65W	DDR4-2666	None
10400T	6/12	2.0 GHz	3.6 GHz	12 MB	35W	DDR4-2666	UHD 630	
Core i3	10325	4/8	3.9 GHz	4.7 GHz	8 MB	65W	DDR4-2666	UHD 630
	10320	4/8	3.8 GHz	4.6 GHz	8 MB	65W	DDR4-2666	UHD 630
	10305	4/8	3.8 GHz	4.5 GHz	8 MB	65W	DDR4-2666	UHD 630
	10305T	4/8	3.8 GHz	4.5 GHz	8 MB	65W	DDR4-2666	UHD 630
	10300	4/8	3.7 GHz	4.4 GHz	8 MB	65W	DDR4-2666	UHD 630
	10300T	4/8	3.0 GHz	3.9 GHz	8 MB	35W	DDR4-2666	UHD 630
	10105F	4/8	3.7 GHz	4.4 GHz	6 MB	65W	DDR4-2666	None
	10105	4/8	3.7 GHz	4.4 GHz	6 MB	65W	DDR4-2666	UHD 630
	10105T	4/8	3.0 GHz	3.9 GHz	6 MB	35W	DDR4-2666	UHD 630
	10100	4/8	3.6 GHz	4.3 GHz	6 MB	65W	DDR4-2666	UHD 630
	10100F	4/8	3.6 GHz	4.3 GHz	6 MB	65W	DDR4-2666	None
	10100T	4/8	3.0 GHz	3.8 GHz	6 MB	35W	DDR4-2666	UHD 630

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

Processors with a TDP > 65W are not supported (marked in red)

Name	Model	Cores/Threads	CPU Clock	Turbo Clock	Smart Cache	TDP	Memory Support	Graphics
Pentium Gold	G6605	2/4	4.3 GHz	-	4 MB	58W	DDR4-2666	UHD 630
	G6600	2/4	4.2 GHz	-	4 MB	58W	DDR4-2666	UHD 630
	G6505	2/4	4.2 GHz	-	4 MB	58W	DDR4-2666	UHD 630
	G6500	2/4	4.1 GHz	-	4 MB	58W	DDR4-2666	UHD 630
	G6500T	2/4	3.5 GHz	-	4 MB	35W	DDR4-2666	UHD 630
	G6405	2/4	4.1 GHz	-	4 MB	58W	DDR4-2666	UHD 630
	G6405T	2/4	3.5 GHz	-	4 MB	35W	DDR4-2666	UHD 630
	G6400	2/4	4.0 GHz	-	4 MB	58W	DDR4-2666	UHD 630
	G6400T	2/4	3.4 GHz	-	4 MB	35W	DDR4-2666	UHD 630
Celeron	G5925	2/2	3.6 GHz	-	4 MB	58W	DDR4-2666	UHD 610
	G5920	2/2	3.5 GHz	-	2 MB	58W	DDR4-2666	UHD 610
	G5905	2/2	3.5 GHz	-	4 MB	58W	DDR4-2666	UHD 610
	G5905T	2/2	3.3 GHz	-	4 MB	35W	DDR4-2666	UHD 610
	G5900	2/2	3.4 GHz	-	2 MB	58W	DDR4-2666	UHD 610
	G5900T	2/2	3.2 GHz	-	2 MB	35W	DDR4-2666	UHD 610

K = unlocked, **T** = power optimized, **F** = without integrated graphics (requires discrete graphics card), **TDP** = Thermal Design Power (max power consumption).

Note: The Shuttle XPC slim barebone DH470 does not support the unlock function of Intel K-series processors.

See more support information at global.shuttle.com

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