

# DQ170

SLIM PC



<b>PROCESSOR</b>	Supports Intel® 6th and 7th generation Core® i3/i5/i7 series, Pentium, and Celeron® LGA 1151 65W processors	
<b>MEMORY</b>	2 x 204 pin DDR3L 1333/1600 MHz SODIMM slots, Supports dual channel up to 32GB (16GB x 2)	
<b>VIDEO GRAPHICS</b>	Intel HD Graphics	
<b>VIDEO OUTPUT</b>	HDMI + DisplayPort, Supports triple independent displays, Supports 4K Ultra HD	
<b>AUDIO</b>	Realtek ALC662, 5.1 channel HD audio	
<b>ETHERNET</b>	Intel i211 + i219LM 10/100/1000 MB/s operation	Supports Wake on LAN function Supports Teaming mode [9]*
<b>STORAGE INTERFACE</b>	SATA 6 GB/s	
<b>ONBOARD CONNECTORS</b>	(1) 4 pin fan connector (1) connector for CMOS battery (1) audio connector (2x7 pin) (2) COM ports	(1) jumper for power on after power fail (hardware solution) [8]* (1) analog VGA graphics output CN6 [5]* (2) USB 2.0 (2x5 pin)
<b>FRONT PANEL</b>	(1) Power Button (1) Power LED (1) HDD LED (2) USB 2.0	(2) USB 3.0 (1) External microphone jack 1/8" (1) External headphone jack 1/8" (1) SD Card Reader
<b>BACK PANEL</b>	(1) HDMI 1.4 [1]* (2) DisplayPort 1.2 [2]* (2) USB 2.0 (2) USB 3.0 (2) Gigabit LAN ports (2) RS232 [10]*	(1) Clear CMOS button (2) Wireless Antenna holes (2) Kensington Lock (1) DC-in (1) VGA connector PVG01 (optional) [5]*
<b>DRIVE BAYS</b>	(1) 2.5" HDD/SSD bay	
<b>DIMENSIONS</b>	7.5(L) x 6.5(W) x 1.7(H) inches	
<b>POWER</b>	Input: 100 - 240V AC Output: 19V 4.74A DC	90W power supply
<b>ACCESSORIES</b>	Quick Guide Screw package SATA cable Power cord Heatsink compound	Driver DVD VESA mount Protection cap for CPU socket (don't use if heatpipe or fan is mounted) 802.11 b/g/n WLAN module (optional) Vertical stand (optional)
<b>EXPANSION SLOT</b>	(1) M2. MAX to 2260 Type BM	(1) Mini PCI-E Half-size
<b>OS SUPPORT</b>	Windows 7, Windows 8.1, Windows 10, Linux	

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<b>CHASSIS</b>	Black slim type metal chassis Kensington lock slot on the back as part of anti-theft system Dimensions: 7.5 (L) x 6.5 (W) x 1.7 (H) inches Weight: 2.8 LBS (net) / 4.6 LBS (gross)
<b>MAINBOARD AND CHIPSET</b>	Platform Controller Hub (PCH) as Single-Chip-Solution Chipset: Intel® Q170 (Codename: Sunrise Point) Supports hardware monitoring and watch dog functionality Solid capacitors for sensitive areas provide excellent heat resistance for enhanced system durability
<b>BIOS</b>	AMI BIOS, SPI Interface, 8 MB EEPROM with SPI interface Supports Unified Extensible Firmware Interface (UEFI) Supports power on after power failure [8]*
<b>POWER SUPPLY</b>	External 90W power adapter (fanless) AC input voltage: 100 - 240V, 50 - 60 Hz Output: 19V DC 4.74A
<b>OPERATING SYSTEM</b>	The system comes without an operating system installed. Compatibility: Windows 7, Windows 8.1, Windows 10, Linux 64bit Windows 7 is only supported in combination with 6th generation Intel® Core® processors [11]*
<b>PROCESSOR SUPPORT</b>	LGA 1151 (H4) Socket supports Intel® Core® i3/i5/i7, Pentium, and Celeron processors -6th generation (Skylake) -7th generation (Kabylake) [12]* Max supported processor power consumption (TDP): 65W 14nm process technology, up to 8MB of L3 cache Not compatible with Intel® Xeon E3 V5 processors for processors with LGA 1150 and LGA 1151 sockets The unlock function for Intel® K-Series processors is not supported with this model The processor integrates PCI-Express, the memory controller, and graphics engine on the same die (performance features depend on the processor type) Please refer to the support list for more detailed processor information at <a href="http://global.shuttle.com">global.shuttle.com</a>
<b>SYSTEM COOLING</b>	Shuttle I.C.E. (Integrated Cooling Engine) advanced heatpipe cooling technology, two 60 mm fans
<b>MEMORY SUPPORT</b>	2 x 204 pin SODIMM slots Supports DDR3L 1333/1600 MHz memory (PC3-10600/12800) at 1.35V Supports Dual Channel mode Supports a max. of 16GB per DIMM, up to 32GB total Supports two unbuffered DIMM modules (no ECC)
<b>DRIVE BAYS</b>	1 x 2.5" drive bay supports one hard disk or SSD drive, max height 12.5 mm
<b>M.2 SLOT</b>	The M.2 2260 BM slot supports M.2 SSD cards with a SATA interface and a width of 22 mm and a length of 30, 42, or 60 mm (type 2230/2242/2260). Supports M.2 SATA SSDs, M.2 PCI-E SSDs and other M.2 cards
<b>MINI PCI-E SLOT</b>	Mini PCI-E Half-Size slot with PCI-E 2.0 and USB 2.0 Supports one optional Wireless Network (WLAN) card [6]*
<b>AUDIO</b>	Realtek® ALC 662 5.1 channel HD audio Two analog audio connectors (3.5 mm) on the front panel: 2 channel line-out (headphones), Microphone input Digital multi-channel audio output (HDMI and DisplayPort)
<b>GIGABIT LAN CONTROLLER</b>	Dual network with two RJ45 ports, used network chips: Intel i211 Ethernet Controller with MAC, PHY, and PCI-E interface Intel i219LM PHY connected to the MAC of the processor  Supports 10/100/1000 MB/s operation Supports Teaming mode [9]* Supports Wake-ON-LAN Supports network boot by Preboot eXecution Environment (PXE)

For more information on all products, please contact us at [sales@us.shuttle.com](mailto:sales@us.shuttle.com) or 626.820.9000

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<b>INTEL VPRO AND AMT</b>	<p>Intel® vPro™ is the brand name for a specific set of management and security technology. With an Intel® Core™ vPro™ processor installed*, Intel® Active Management Technology (AMT) is supported and allows the remote management of PCs, even in power-off mode or with non-functional operating systems. You can audit, repair, and restore AMT based platforms through LAN. These functions can increase the uptime of desktops with lower maintenance costs.</p> <p>*Intel® vPro™ requires a processor like Core i7/7700/T, Core i5 7600/T, Core i7 6700/T, Core i5 6600/T, Core i5 6500/T, etc) and appropriate software</p> <p>Equipped with a Trusted Platform Module (TPM) TPM v2.0 chip: Nuvoton Digital IC NPCT6 with FW software (version 1.3)</p>	
<b>INTEGRATED GRAPHICS</b>	<p>Intel HD graphics function features depend on the processor type used This model has three video outputs: DisplayPort 1.2 x 2 and HDMI 1.4</p> <p>Supports three independent Full HD displays simultaneously [3]* Supports Full HD resolution (1920x1200), 1080p/60Hz Supports 4K UHD resolution (3840x2160), max 2160p/60Hz on DisplayPort or max 30Hz on HDMI [4]* Supports Blu-Ray playback with HDCP content protection Supports HD video plus multi-channel digital audio via a single cable Optional analog VGA video output [5]*</p>	
<b>MULTI-CHANNEL AUDIO</b>	<p>Realtek ALC662 codec with 5.1 channel HD audio Front: MIC in, Headphones in Digital multi-channel audio via HDMI and DisplayPort outputs</p>	
<b>CARD READER</b>	<p>Integrated card reader supports SD, SDHC, SDXC memory flash cards Supports boot up from SD card</p>	
<b>FRONT PANEL CONNECTORS</b>	<p>Microphone input Headphone output (line-out) 2 x USB 3.0 2 x USB 2.0</p>	<p>Power button Power indicator (Blue LED) Hard disk drive indicator (Yellow LED) SD Card Reader</p>
<b>BACK PANEL CONNECTORS</b>	<p>HDMI v1.4 [1]* DisplayPort 1.2 x 2 [2]* USB 3.0 x 2 USB 2.0 x 2 Kensington Lock x 2 RS232 x 2 [10]*</p>	<p>Clear CMOS button Gigabit LAN (RJ45) x 2 WLAN antenna holes x 2 DC-input connector for external power adapter Optional VGA connector (PVG01) [5]*</p>
<b>OTHER CONNECTORS (ONBOARD)</b>	<p>Connector for CMOS battery Fan connectors x 1 (4 pin) USB 2.0 x 2 (2x5 pin) Audio connector</p>	<p>Power on after power failure (hardware solution by jumper) [8]* COM x 2 Analog VGA output [5]*</p>
<b>INCLUDED ACCESSORIES</b>	<p>XPC installation guide Driver DVD SATA and power cables Heatsink compound</p>	<p>External 90W power adapter with cord Protector cap for CPU socket (don't use if heatpipe/fan is mounted) Screw pack VESA mount (PV04)</p>
<b>OPTIONAL ACCESSORIES</b>	<p>Vertical stand (PS02) WLN-S/WLN-P (WLAN module)</p>	<p>VGA connector (PVG01) [5]*</p>
<b>ENVIRONMENTAL CRITERIA</b>	<p>Operating temperature: 0 - 50°C [7]*</p>	<p>Humidity: 10 - 90% (non-condensing)</p>
<b>CERTIFICATIONS</b>	<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) 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] THREE INDEPENDENT DISPLAYS SIMULTANEOUSLY

The DQ170 supports a maximum of two displays with the same input connector. For example: two displays can be connected through the HDMI input - the first one directly to the HDMI output, the second one to the DisplayPort output with an adapter. If required, a third digital display must be connected directly to the DisplayPort output (without an adapter).

### [4] 4K ULTRA HD RESOLUTION

A 4K display with Ultra HD resolution (3840 x 2160) should be connected via DisplayPort (this port only supports a higher refresh rate of 60 Hz). There are certain displays will require a MST (Multi-Stream Transport) mode to be enabled, which sends two separate images at half resolution each to the display. The two images are then combined and put in the correct order by the Intel graphics driver when in Collage mode. HBR2 mode (High Bit Rate 2) must be supported by each display to have two of them run at 4K resolution. The video playback performance depends on the video format, bit rate, and processor used. For HBR2 mode (High Bit Rate 2), it must be supported by each display to have more than one of them run at 4K resolution.

### [5] OPTIONAL VGA CONNECTOR

The mainboard features one analog graphics port CN6 and can be lead to the outside as a 15 pin VGA connector on the back panel by using the optional adapter accessory PVG01 (doing so means one less COM port will be available on the back panel).

### [6] OPTIONAL WIRELESS LAN MODULE

The DQ170 supports an optional WLAN module that consists of a half-size Mini PCI-E WLAN card and external antenna with the appropriate antenna cable. Shuttle offers the WLN-S accessory kit with two antennas.

### [7] OPERATING TEMPERATURE

For high ambient temperatures over 40°C, we strongly recommend using SSDs (supporting at least 70°C) and rugged SODIMM memory modules with a temperature range of up to 95°C.

### [8] POWER ON AFTER POWER FAILURE

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 DQ170 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.

### [9] TEAMING MODE

The teaming function allows for grouping both available network adapters to work as one single adapter. This mode enables load balancing and failover (driver downloads can be found here: <https://downloadcenter.intel.com/download/21642>)

### [10] SERIAL PORTS

This PC features two serial RS232 ports with 9 pin D-sub connectors on the back panel. The left COM 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).

For more information on all products, please contact us at [sales@us.shuttle.com](mailto:sales@us.shuttle.com) or 626.820.9000

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### [11] INSTALLATION OF WINDOWS 7

The Intel® 100 chipset series no longer supports the Enhanced Host Controller Interface (EHCI), which is the driver software for USB 2.0 ports. The new chipset only supports the updated Extensible Host Controller Interface (xHCI for USB 3.0) which is not supported by the original Windows 7 installation disk. This means that peripheral devices connected by USB (like a keyboard or mouse) will not work during the Windows 7 installation. To solve this, please add the required USB 3.0 drivers to the Windows 7 installation files. The steps for this solution can be found in the Shuttle FAQ section of [global.shuttle.com](http://global.shuttle.com).

### [10] KABYLAKE PROCESSOR SUPPORT

7th generation Intel Core processors are supported from BIOS version DQ170000.203. Download website: <http://global.shuttle.com/main/productsDownload?productId=2093>.

**BIOS DOWNLOADS:** <http://global.shuttle.com/products/productsDownload?productId=2093>

**SUPPORT LIST:** <http://global.shuttle.com/products/productsSupportList?productId=2093>

**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 | Headphone input  | 6 | SD Card Reader |
| 3 | Power LED        | 7 | USB 3.0 x 2    |
| 4 | Hard Disk LED    | 8 | USB 2.0 x 2    |

## Back View



- |   |                              |   |                          |
|---|------------------------------|---|--------------------------|
| A | WLAN antenna hole x 2        | G | RS232 (COM1)             |
| B | Ventilation grille           | H | RS232/RS422/RS485 (COM2) |
| C | DC power input               | I | USB 3.0 x 2              |
| D | HDMI video output            | J | USB 2.0 x 2              |
| E | DisplayPort video output x 2 | K | Clear CMOS connector     |
| F | Gigabit LAN (RJ45) x 2       |   |                          |



Kensington lock hole on left and right side

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## SUPPORTS INTEL® 6TH AND 7TH GENERATION PROCESSORS

Equipped with a LGA 1151 socket, the DQ170 supports both Intel® 6th Generation (Sky Lake) and Intel® 7th Generation (Kaby Lake) Core i3/i5/i7, Pentium®, and Celeron® 65W processors. With a newer generation of integrated Intel HD graphics, CPU and GPU performance is significantly increased and saves more power.



## VESA MOUNTABLE

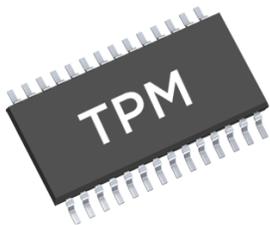
The supplied 75/100mm VESA mount allows for installation of the DQ170 on walls or monitors, for use in company buildings, public institutions, or other industry buildings. With a thickness of 43mm,



## SUPPORTS INTEL® AMT TECHNOLOGY

With an Intel® Core™ vPro™ processor installed\*, Intel® Active Management Technology is supported, allowing users to remotely manage and repair the client PC system via a wire or wireless network.

\*vPro supported only for i5/i7 models; for wireless networks, an Intel wireless card that supports vPro is required



## SUPPORTS TPM DATA ENCRYPTION

An onboard built-in TPM\* (Trusted Platform Module) is provided with a set of random keys to protect HDD data. The module ensures that unauthorized users do not have permission to access data.

\*TPM v2.0 chip is installed



## 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.

For more information on all products, please contact us at [sales@us.shuttle.com](mailto:sales@us.shuttle.com) or 626.820.9000

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## SLIM PC



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



<b>ACCESSORY</b>	<b>PVG01</b>
<b>DESCRIPTION</b>	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.
<b>SPECIFICATIONS</b>	Length: 6.3 inches, Back panel connector: 15 pin Mini D-sub female socket, Internal connector: Subminiature 2x10 pin female



<b>ACCESSORY</b>	<b>PV04</b>
<b>DESCRIPTION</b>	The PV04 (VESA 75/100 mm) can be attached to a wall, monitor, or TV with a VESA standard mounting hole pattern. The PC affixes securely in the metal mount with the screw fittings included.
<b>ITEMS INCLUDED</b>	VESA mount x 1, Thumbscrews x 4 (screws mount to PC), Screws x 4 (screws mount to external device), Quick Guide
<b>REMARKS</b>	Supports 75 and 100 mm VESA standards



<b>ACCESSORY</b>	<b>WLN-P</b>
<b>DESCRIPTION</b>	The WLN-P 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.
<b>REMARKS</b>	Mini PCI-E Express half size WLAN card, Antenna cable (XPC slim) x 2, Antenna cable (XPC cube) x 2, Dipole antenna x 2, Quick Guide, Driver DVD
<b>OS SUPPORT</b>	Windows 7, Windows 8.1, Windows 10, Linux (32/64 bit)

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# DH110 vs DQ170

SLIM PC



MODEL	DH110	DQ170
CHIPSET	Intel H110	Intel Q170
PROCESSOR SUPPORT	LGA 1151, max TDP 65W 14nm Skylake (6th Gen Core CPU) 14nm Kabylake (7th Gen Core CPU) Intel® Core™ i3/i5/i7, Pentium, Celeron	LGA 1151, max TDP 65W 14nm Skylake (6th Gen Core CPU) 14nm Kabylake (7th Gen Core CPU) Intel® Core™ i3/i5/i7, Pentium, Celeron
MEMORY	2 x 16GB DDR3L 1333/1600 MHz max	2 x 16GB DDR3L 1333/1600 MHz max
VIDEO OUTPUT	HDMI + DisplayPort, Supports dual displays, Supports 4K Ultra HD	HDMI + DisplayPort, Supports three displays, Supports 4K Ultra HD
AUDIO	Realtek AL662, 5.1 channel HD audio	Realtek AL662, 5.1 channel HD audio
ETHERNET	Intel i211 + i219LM 10/100/1000 MB/s operation Supports Wake on LAN function Supports Teaming mode Preboot eXecution Environment (PXE) support	Intel i211 + i219LM 10/100/1000 MB/s operation Supports Wake on LAN function Supports Teaming mode Preboot eXecution Environment (PXE) support
SATA ONBOARD	SATA 6G x 1 eSATA x 1	SATA 6G x 1
TPM SUPPORT	-	Hardware - TPM v2.0 chip
FRONT PANEL	Power button with LED, HDD LED, MIC-in, Headphone out, SD Card Reader, USB 3.0 x 2, USB 2.0 x 2	Power button with LED, HDD LED, MIC-in, Headphone out, SD Card Reader, USB 3.0 x 2, USB 2.0 x 2
BACK PANEL	HDMI, DisplayPort USB 3.0 x 2 Gigabit LAN (Intel i211 + i219LM) x 2 RS232 + RS232/RS422/RS485 WLAN antenna x 2 (optional) Clear CMOS button	HDMI, DisplayPort USB 2.0 x 3, USB 3.0 x 2 Gigabit LAN (Intel i211 + i219LM) x 2 RS232 + RS232/RS422/RS485 WLAN antenna x 2 (optional) Clear CMOS button
DRIVE BAYS	(1) 2.5" HDD/SSD bay	(1) 2.5" HDD/SSD bay
OPTIONAL ACCESSORIES	Vertical Stand (PS02) VGA connector (PVG01) WLAN kit (WLN-M)	Vertical Stand (PS02) VGA connector (PVG01) WLAN kit (WLN-S/WLN-P)
EXPANSION SLOT	M.2 2260 BM slot M.2 2230 AE slot, Support optional WLAN	M.2 2260 BM slot Mini PCI-E Half-size slot, Supports optional WLAN
OS SUPPORT	Windows 7, Windows 8.1, Windows 10, Linux 64 bit	Windows 7, Windows 8.1, Windows 10, Linux 64 bit

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# DQ170

## SLIM PC

### 6th Generation Intel Core Desktop Processors (LGA 1151 14 nm Skylake-S)

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

Name	Model	Cores/Threads	CPU Clock	Turbo Clock	Cache	TDP	Graphics	Graphics Clock
Core i7	6700K	4 / 8	4.0 GHz	4.2 GHz	8 MB	91W	HD 530	350 - 1150 MHz
	6700	4 / 8	3.4 GHz	4.0 GHz	8 MB	65W	HD 530	350 - 1150 MHz
	6700T	4 / 8	2.8 GHz	3.6 GHz	8 MB	35W	HD 530	350 - 1100 MHz
Core i5	6600K	4 / 4	3.5 GHz	3.9 GHz	6 MB	91W	HD 530	350 - 1150 MHz
	6600	4 / 4	3.3 GHz	3.9 GHz	6 MB	65W	HD 530	350 - 1150 MHz
	6600T	4 / 4	2.7 GHz	3.5 GHz	6 MB	35W	HD 530	350 - 1100 MHz
	6500	4 / 4	3.2 GHz	3.6 GHz	6 MB	65W	HD 530	350 - 1150 MHz
	6500T	4 / 4	2.5 GHz	3.1 GHz	6 MB	35W	HD 530	350 - 1100 MHz
	6400	4 / 4	2.7 GHz	3.3 GHz	6 MB	65W	HD 530	350 - 1150 MHz
	6400T	4 / 4	2.2 GHz	2.8 GHz	6 MB	35W	HD 530	350 - 1100 MHz
Core i3	6320	2 / 4	3.9 GHz	-	4 MB	65W	HD 530	350 - 1150 MHz
	6300	2 / 4	3.8 GHz	-	4 MB	65W	HD 530	350 - 1150 MHz
	6300T	2 / 4	3.3 GHz	-	4 MB	35W	HD 530	350 - 1100 MHz
	6100	2 / 4	3.7 GHz	-	4 MB	65W	HD 530	350 - 1150 MHz
	6100T	2 / 4	3.2 GHz	-	4 MB	35W	HD 530	350 - 1100 MHz
Pentium	G4520	2 / 2	3.6 GHz	-	3 MB	51W	HD 530	350 - 1150 MHz
	G4500	2 / 2	3.5 GHz	-	3 MB	51W	HD 530	350 - 1150 MHz
	G4500T	2 / 2	3.0 GHz	-	3 MB	35W	HD 530	350 - 1100 MHz
	G4400	2 / 2	3.3 GHz	-	3 MB	51W	HD 530	350 - 1150 MHz
	G4400T	2 / 2	2.9 GHz	-	3 MB	35W	HD 530	350 - 1100 MHz
Celeron	G3920	2 / 2	2.9 GHz	-	2 MB	51W	HD 530	350 - 1050 MHz
	G3900	2 / 2	2.8 GHz	-	2 MB	51W	HD 530	350 - 1050 MHz
	G3900T	2 / 2	2.6 GHz	-	2 MB	35W	HD 530	350 - 950 MHz

K = unlocked, T = power optimized, HT = hyper threading. The DQ170 does not support the unlock function of Intel K-series processors.

See more support information at [global.shuttle.com](http://global.shuttle.com)

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# DQ170

## SLIM PC

### 7th Generation Intel Core Desktop Processors (LGA 1151 14 nm Kabylake-S)

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

Name	Model	Cores/Threads	CPU Clock	Turbo Clock	Cache	TDP	Graphics	Graphics Clock
Core i7	7700K	4 / 8	4.2 GHz	4.5 GHz	8 MB	91W	HD 630	350 - 1150 MHz
	7700	4 / 8	3.6 GHz	4.2 GHz	8 MB	65W	HD 630	350 - 1150 MHz
	7700T	4 / 8	2.9 GHz	3.8 GHz	8 MB	35W	HD 630	350 - 1150 MHz
Core i5	7600K	4 / 4	3.8 GHz	4.2 GHz	6 MB	91W	HD 630	350 - 1150 MHz
	7600	4 / 4	3.5 GHz	4.1 GHz	6 MB	65W	HD 630	350 - 1150 MHz
	7600T	4 / 4	2.8 GHz	3.7 GHz	6 MB	35W	HD 630	350 - 1100 MHz
	7500	4 / 4	3.4 GHz	3.8 GHz	6 MB	65W	HD 630	350 - 1100 MHz
	7500T	4 / 4	2.7 GHz	3.3 GHz	6 MB	35W	HD 630	350 - 1100 MHz
	7400	4 / 4	3.0 GHz	3.5 GHz	6 MB	65W	HD 630	350 - 1000 MHz
	7400T	4 / 4	2.4 GHz	3.0 GHz	6 MB	35W	HD 630	350 - 1000 MHz
Core i3	7350K	2 / 4	4.2 GHz	-	4 MB	60W	HD 630	350 - 1050 MHz
	7320	2 / 4	4.1 GHz	-	4 MB	51W	HD 630	350 - 1050 MHz
	7300	2 / 4	4.0 GHz	-	4 MB	51W	HD 630	350 - 1050 MHz
	7300T	2 / 4	3.5 GHz	-	4 MB	35W	HD 630	350 - 1100 MHz
	7101E	2 / 4	3.9 GHz	-	3 MB	54W	HD 610	350 - 1100 MHz
	7101TE	2 / 4	3.4 GHz	-	3 MB	35W	HD 610	350 - 1100 MHz
	7100	2 / 4	3.9 GHz	-	3 MB	51W	HD 630	350 - 1100 MHz
	7100T	2 / 4	3.4 GHz	-	3 MB	35W	HD 630	350 - 1100 MHz
Pentium	G4620	2 / 4	3.7 GHz	-	3 MB	51W	HD 630	350 - 1100 MHz
	G4600	2 / 4	3.6 GHz	-	3 MB	51W	HD 630	350 - 1100 MHz
	G4600T	2 / 4	3.0 GHz	-	3 MB	35W	HD 630	350 - 1050 MHz
	G4560	2 / 4	3.5 GHz	-	3 MB	54W	HD 610	350 - 1050 MHz
	G4560T	2 / 4	2.9 GHz	-	3 MB	35W	HD 610	350 - 1050 MHz
Celeron	G3950	2 / 2	3.0 GHz	-	2 MB	51W	HD 610	350 - 1050 MHz
	G3930	2 / 2	2.9 GHz	-	2 MB	51W	HD 610	350 - 1050 MHz
	G3930T	2 / 2	2.7 GHz	-	2 MB	35W	HD 610	350 - 1000 MHz

For more information on all products, please contact us at [sales@us.shuttle.com](mailto:sales@us.shuttle.com) or 626.820.9000