

# XH110G

SLIM PC



<b>PROCESSOR</b>	Supports Intel® Skylake/Kabylake 65W Core® i3/i5/i7 series, Pentium, and Celeron® LGA 1151 processors	
<b>MEMORY</b>	DDR4 2133/2400 MHz, Supports dual channel up to 32GB (16GB x 2)	
<b>VIDEO GRAPHICS</b>	Intel HD Graphics, Supports DirectX 12	
<b>VIDEO OUTPUT</b>	HDMI + VGA, Supports dual independent displays, Supports 4K Ultra HD	
<b>AUDIO</b>	Realtek ALC662, 5.1 channel HD audio	
<b>ETHERNET</b>	Intel i211 10/100/1000 MB/s operation	Supports Wake on LAN function
<b>STORAGE INTERFACE</b>	SATA 6 GB/s	(1) M.2 2242/2260/2280 Type M slot
<b>ONBOARD CONNECTORS</b>	(1) SATA connector w/ power	(1) 4 pin fan connector
<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"
<b>BACK PANEL</b>	(1) HDMI 1.4 (1) VGA (4) USB 2.0 (1) RJ45 Gigabit LAN	(1) PCI-E slot (1) Clear CMOS button (1) DC-in (1) Kensington Lock
<b>DRIVE BAYS</b>	(1) 2.5" HDD/SSD bay	
<b>DIMENSIONS</b>	9.8(L) x 7.9(W) x 2.8(H) inches	
<b>POWER</b>	Input: 100 - 240V AC Output: 19.5V/9.23A DC	180W power supply
<b>ACCESSORIES</b>	Quick Guide Screw package Power adapter Power cord PS01 (optional stand)	Driver DVD VESA bracket VESA screws WLN-M (optional wireless + Bluetooth card)
<b>EXPANSION SLOT</b>	(1) M.2 2230 Type AE key socket	(1) PCI-E X16
<b>OS SUPPORT</b>	Windows 7, Windows 10, Linux	

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<b>CHASSIS</b>	<p>Black slim type chassis Kensington lock slot on the back as part of anti-theft system No concealed front panel connectors Dimensions: 9.8 (L) x 7.9 (W) x 2.8 (H) inches Weight: 4 LBS (net) / 6.6 LBS (gross)</p>
<b>MAINBOARD AND CHIPSET</b>	<p>Shuttle mainboard FH110G, form factor 17 x 19 cm Chipset: Intel® H110 (Codename: Sunrise Point) Supports hardware monitoring and watch dog functionality Solid capacitors for sensitive areas provide excellent heat resistance for enhanced system durability</p>
<b>BIOS</b>	<p>AMI BIOS, SPI Interface, 8 MB EEPROM with SPI interface Supports PnP, ACPI 3.0, Hardware Monitoring Supports boot up from external USB flash memory Supports Unified Extensible Firmware Interface (UEFI) Supports power on after power failure [1]*</p>
<b>POWER SUPPLY</b>	<p>External 180W power adapter (fanless) AC input voltage: 100 - 240V, 50 - 60 Hz Output: 19.5V DC 9.23A AC connector with protective earth contacts This system can also be powered by a power adapter with an output voltage of 12V DC</p>
<b>OPERATING SYSTEM</b>	<p>The system comes without an operating system installed. Compatibility: Windows 7, Windows 8.1, Windows 10, Linux 64bit Windows 7 and 8.1 is only supported in combination with 6th generation Intel® Core® processors</p>
<b>PROCESSOR SUPPORT</b>	<p>LGA 1151 (H4) Socket supports Intel® Core® i3/i5/i7, Pentium, and Celeron processors -6th generation (Skylake) -7th generation (Kabylake) 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></p>
<b>SYSTEM COOLING</b>	<p>Shuttle I.C.E. (Integrated Cooling Engine) advanced heatpipe cooling technology, two 60 mm fans</p>
<b>MEMORY SUPPORT</b>	<p>2 x 260 pin SODIMM slots Supports DDR4 2133/2400 MHz memory (PC4-17000/19200) at 1.2V Supports Dual Channel mode Supports a max. of 16GB per DIMM, up to 32GB total Supports two unbuffered DIMM modules (no ECC or registered)</p>
<b>DRIVE BAYS</b>	<p>This system features one 2.5" drive bay accessible on the bottom of the housing: Supports one 2.5" HDD/SSD with max 9.5 mm height System includes a pre-installed data or power cable [3]* Connector supports SATA III with max 6GB/s</p>
<b>M.2 SLOTS</b>	<p>M.2 2280 M slot provides the following interfaces: PCI-Express v2.0 X4 SATA v3.0 6GB/s</p> <p>Supports M.2 cards with a width of 22 mm and a length of 42/60/80 mm (Type 2242/2260/2280) and M.2 SSDs with SATA or PCIe interface</p> <p>M.2 2230 AE slot provides the following interfaces: PCI-Express v2.0 X1 USB 2.0</p> <p>Supports M.2 cards with a width of 22 mm and a length of 30 mm. Slot intended for WLAN, Bluetooth, GSM/UMTS cards and other. SATA interface for SSD cards is not available here.</p>

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<b>INTEGRATED GRAPHICS</b>	<p>Intel HD graphics function features depend on the processor type used Supports DirectX 12, OGL 5.x, OCL 2.x</p> <p>This model has the following video outputs: -HDMI v1.4 (1080p/60 and 2160p/30 supported) -VGA / 15 pin (supports analog video)</p> <p>Supports two independent displays simultaneously HDMI supports 7.1 multi-channel digital audio over the same cable Maximum shared memory: 1760MB</p>	
<b>MULTI-CHANNEL AUDIO</b>	<p>High Definition Audio with Realtek ALC662 codec Front: MIC in, Headphones in Back: Line-in (blue), line-out (green), MIC in (pink) Digital 7.1 audio output possible via the HDMI port</p>	
<b>GIGABIT LAN CONTROLLER</b>	<p>Intel i211 network controller Supports 10/100/1000 MB/s operation Supports Wake-on-LAN Supports network boot by Preboot eXecution environment (PXE)</p>	
<b>SATA CONNECTORS</b>	<p>The mainboard provides three Serial-ATA interfaces, max 6GB/s supported Supports NCQ and AHCI Support Intel Rapid Storage Technology 13 (RST) Package includes pre-installed cables (for SATA and power) and mounting screws for 2.5" drive &amp; one ODD drive</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)</p>
<b>BACK PANEL CONNECTORS</b>	<p>HDMI v1.4 VGA (analog video output) USB 2.0 x 4 Kensington Lock x 1</p>	<p>Clear CMOS button Gigabit LAN (RJ45) x 2 WLAN antenna holes x 2</p>
<b>OTHER CONNECTORS (ONBOARD)</b>	<p>4 pin USB 2.0 headers 2 x 5 pin debug port 2 pin connector for CMOS/RTC battery</p>	<p>Fan connectors (4 pin), one occupied by cooling system 4 x front connector (power button, LEDs, USBs, audio ports) Power on after power failure (hardware solution by jumper) <b>[1]*</b></p>
<b>INCLUDED ACCESSORIES</b>	<p>XPC installation guide Driver DVD Bracket for one 2.5" drive w/ screws</p>	<p>AC Power Cord (with protective earth contacts) VESA mount w/ screws Protector cap for CPU socket (don't use if heatpipe/fan is mounted)</p>
<b>OPTIONAL ACCESSORIES</b>	<p>Vertical stand (PS01)</p>	<p>WLAN module (WLN-M) <b>[4]*</b></p>
<b>ENVIRONMENTAL CRITERIA</b>	<p>Operating temperature: 0 - 50°C <b>[2]*</b></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] POWER ON AFTER POWER FAILURE

The BIOS setup provides a power on after power fail function that can be found under "Power Management Configuration". The function determines the PC's behavior after power failure: (1) unconditional power on, (2) restore former status, or (3) keep system turned off. The function may fail after short power failures, but the PC comes with a hardware based solutions for these cases. By removing the appropriate jumper, the system will start unconditionally once power is supplied.

### [2] HIGH AMBIENT TEMPERATURE

For high ambient temperature over 40°C, SSDs are strongly recommended instead of hard disk drives.

### [3] POWER CONNECTOR FOR SATA DRIVES

The supplied power cables for SATA drives provide a voltage of 5V. Only in very exceptional cases, a 2.5" hard disk also requires a 12V line, which is not supported out of the box (only via an optional adapter, included with PHD4)

### [4] OPTIONAL WIRELESS LAN MODULE

This model supports an optional Shuttle accessory which includes a M.2 card with IEEE 802.11 ac and Bluetooth 4.0 functionality and two external antennas with appropriate antenna cables.

**BIOS DOWNLOADS:** <http://global.shuttle.com/products/productsDownload?productId=2189>

**SUPPORT LIST:** <http://global.shuttle.com/products/productsSupportList?productId=2189>

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

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

# XH110G

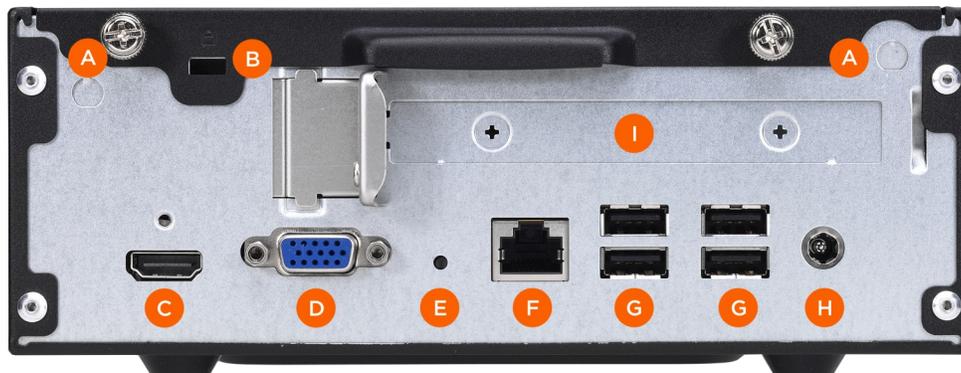
SLIM PC

## Front View



- |   |                  |   |                                   |
|---|------------------|---|-----------------------------------|
| 1 | USB 3.0 port x 2 | 4 | Headphone input                   |
| 2 | USB 2.0 port x 2 | 5 | Power on button with LED          |
| 3 | Microphone input | 6 | LED indicator for hard disk drive |

## Back View



- |   |                       |   |                      |
|---|-----------------------|---|----------------------|
| A | WLAN antenna hole x 2 | F | Gigabit LAN (RJ45)   |
| B | Kensington Lock       | G | USB 2.0 x 4          |
| C | HDMI (video/audio)    | H | DC-in connector      |
| D | VGA (video)           | I | PCI-Express X16 slot |
| E | Clear CMOS button     |   |                      |

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## SUPPORTS INTEL<sup>®</sup> 6TH AND 7TH GENERATION PROCESSORS

The XH110G supports both Intel<sup>®</sup> 6th Generation (Sky Lake) and Intel<sup>®</sup> 7th Generation (Kaby Lake) Core i3/i5/i7, Pentium<sup>®</sup>, and Celeron<sup>®</sup> 65W processors. Built-in DirectX 12 compatibility with Intel<sup>®</sup> HD graphics significantly increases CPU or GPU performance.



## SUPPORTS PCI-E X16 EXPANSION SLOT

With a built-in PCI-E X16 slot, the XH110G can be installed with various add on cards such as graphic cards, capture cards, and multi-network cards for various applications.\*

\*Max size for display cards is 208.5 mm (L) x 120 mm (W) x 30 mm (H)



## INTERNAL USB PORT

In addition to the USB ports on the front and back panel, the XH110G provides one Type A USB 2.0 port inside the chassis for theft protection. Users can install a USB TV tuner, USB 3G module, or other USB expanders.



## MULTIPLE I/O PORTS

Multiple I/O ports and high speed interfaces are provided including USB 2.0, USB 3.0, SATA 6GB/s, M.2, and Intel<sup>®</sup> Gigabit LAN. One M.2 2280/2260/2242 Type M and 2230 Type A/E slots can be used to install M.2 SSDs, a Wi-Fi card, or other compatible devices.



## 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.

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## EXAMPLES FOR APPLICATIONS OF EXPANSION CARD

Despite the small dimensions of the chassis, the XH110G sports a full PCI-Express X16 slot for a single slot expansion card measuring up to 208.5 mm in length, 120 mm in height, and 30 mm in width. The barebone also supports powerful components such as an Intel® Core® i7 processor or 32GB RAM. This allows for numerous applications to be run that required a bigger PC in the past.



XH110G equipped with Radeon PRO WX 5100

EXPANSION CARD	POSSIBLE APPLICATIONS
<b>Gaming Graphic Card</b> e.g. INNO3D GeForce GTX 1050 Ti Compact single slot, 4096 MB GDDR5	Gaming PC 3D Workstation
<b>Multi-port Graphics Card</b> e.g. AMD FirePro W600 or Matrox C680 with 6x Mini-DisplayPort	Visualization for Control Rooms Surveillance and Security Digital Signage with Video Wall Information Display (POI)
<b>CAD Graphics Card</b> e.g. NVIDIA Quadro P2000	CAD Applications Content Creation 3D Workstation
<b>Video Capture Card</b> e.g. with 4x SDI/BNC	Multi-channel Capture System
<b>Special Network Card</b> e.g. Multiport or 10 GB/s	Proxy and Firewall Applications Intranet Server
<b>Fieldbus Card</b> e.g. EtherCAT, Profibus, CAN, Modbus, etc	Industry Automation Conveyor Technology Building Automation
<b>Multi I/O Card</b> e.g. 8x COM-Port, DA/AD converter, general purpose input/output (GPIO)	Point of Sales (POS) Vending Machine Automation/Control System
<b>Receiver Card</b> e.g. for SAT, DVB-T2, Cable	Home Entertainment

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# XH110 vs XH110G

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MODEL	XH110	XH110G
CHIPSET	Intel H110	Intel H110
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 DDR4 2133/2400 MHz max
VIDEO OUTPUT	HDMI + DisplayPort, Supports dual displays, Supports 4K Ultra HD, DirectX 12	HDMI + VGA, Supports dual displays, Supports 4K Ultra HD, DirectX 12
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	Intel i211 10/100/1000 MB/s operation Supports Wake on LAN function
SATA ONBOARD	SATA 6G x 3	SATA 6G x 3
FRONT PANEL	Power button with LED, HDD LED, MIC-in, Headphone out, USB 3.0 x 2, USB 2.0 x 2	Power button with LED, HDD LED, MIC-in, Headphone out, USB 3.0 x 2, USB 2.0 x 2
BACK PANEL	HDMI, DisplayPort USB 3.0 x 2, USB 2.0 x 2 Gigabit LAN (Intel i211 + i219LM) x 2 Audio x 3, Clear CMOS button	HDMI, VGA USB 2.0 x 4 Gigabit LAN (Intel i211) Clear CMOS button
DRIVE BAYS	(1) 5.25" ODD bay* (2) 2.5" HDD/SSD bay*	(1) 2.5" HDD/SSD bay
INCLUDED ACCESSORIES	Quick Guide Driver DVD Pre-installed SATA and power cables for one 2.5" drive & ODD Protector cap for CPU socket (don't use if heatpipe/fan is mounted)	Quick Guide Driver DVD VESA mount (PV02) VESA screws Protector cap for CPU socket (don't use if heatpipe/fan is mounted)
OPTIONAL ACCESSORIES	Vertical Stand (PS01) VESA mount (PV02) VGA adapter (PVG01) WLAN kit (WLN-M) 3.5" HDD rack (PHD4)*	Vertical Stand (PS01) WLAN kit (WLN-M)
EXPANSION SLOT	M.2 2280 M x 2 slot M.2 2230 AE slot, Supports optional WLAN	M.2 2230 AE slot, Supports optional WLAN PCI-Express X16 slot
OS SUPPORT	Windows 7, Windows 8.1, Windows 10, Linux 64 bit**	Windows 7, Windows 8.1, Windows 10, Linux 64 bit**

\*PCH4 HDD rack accessory can be used to install one 3.5" drive, but ODD or one 2.5" HDD/SSD cannot be installed if used.

\*\*Kabylake CPU doesn't support Windows 7 and Windows 8.1

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<b>ACCESSORY</b>	<b>PS01</b>
<b>DESCRIPTION</b>	The PS01 stand is required for stability when placing the slim PC for vertical orientation
<b>COMPATIBILITY</b>	XG41, XH61, XH61V, XH81V, XH97V, XH110, XH110V, XH110G, XH170V, XH270, XH310, XH310V, XC60J



<b>ACCESSORY</b>	<b>WLN-M</b>
<b>DESCRIPTION</b>	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.
<b>REMARKS</b>	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
<b>OS SUPPORT</b>	Windows 7, Windows 8.1, Windows 10, Linux (32/64 bit)

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## SLIM PC

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

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 XH110G does not support the unlock function of Intel K-series processors.

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## SLIM PC

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

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

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