200 MHz





Search specifications





Intel[®] Celeron[®] Processor G1820T

raphics Base Frequency ?

2M Cache, 2.40 GHz

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Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

Processor Graphics

Expansion Options

Package Specifications

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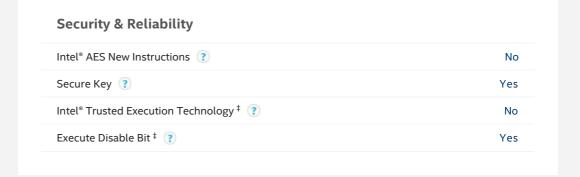
Product Images

Compatible Products

Downloads and Software

	Export specification
Product Collection	Intel® Celeron® Processor G Series
Code Name	Products formerly Haswell
Vertical Segment	Desktop
Processor Number	G1820T
Status	Discontinued
Launch Date ?	Q1'14
Expected Discontinuance ?	07/14/2017
Lithography ?	22 nm
Recommended Customer Price ?	
Performance	
# of Cores 🕐	2
# of Threads ?	2
Processor Base Frequency ?	2.40 GHz
Cache ?	2 MB SmartCache
Bus Speed ?	5 GT/s DMI2
TDP ?	35 W
Supplemental Information	
Embedded Options Available ?	No
	View now
Datasheet	View now
Memory Specifications	view now
Memory Specifications	
Memory Specifications Max Memory Size (dependent on me	emory type) ③ 32 GB
Memory Specifications Max Memory Size (dependent on me Memory Types ?	emory type) ③ 32 GB DDR3-1333, DDR3L-1333 @ 1.5V
Memory Specifications Max Memory Size (dependent on me Memory Types ? Max # of Memory Channels ?	2 mory type) ? 32 GB DDR3-1333, DDR3L-1333 @ 1.5V
Memory Specifications Max Memory Size (dependent on me Memory Types ? Max # of Memory Channels ? Max Memory Bandwidth ?	2 21.3 GB/s

Graphics Output ② eDP/DP/HDMI/DVI/VG Max Resolution (HDMI 1.4)‡ ② 1920x1080@60H Max Resolution (DP)‡ ② 2560x1600@60H Max Resolution (PDP - Integrated Flat Panel)‡ ② 2560x1600@60H Max Resolution (VGA)‡ ③ 1920x1200@60H DirectX* Support ② 11.1/1 OpenGL* Support ② 11.1/1 OpenGL* Support ② 11.1/1 PopenGL* Support ② 14. Intel* Quick Sync Video ⑦ Ye # of Displays Supported † Expansion Options Scalability 150n PCI Express Revision ② Up to 1x16, 2x8, 1x8+2x Max # of PCI Express Lanes ⑦ 11 Package Specifications Sockets Supported ⑦ FCLGA115 Max CPU Configuration Thermal Solution Specification ② PCG 2013 TCASE ② 66.4* Package Size 37.5mm x 37.5mm Advanced Technologies Intel* Optane* Memory Supported Ť ② N Intel* Turbo Boost Technology Ť ② N Intel* Turbo Boost Technology Ť ② N Intel* Turbo Boost Technology T ③ N Intel* Turbo Boost Technology T 0 N In	Graphics Max Dynamic Frequency ?	1.05 GH
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Max Resolution (DP)‡ ② 2560x1600@604 Max Resolution (vGA)‡ ③ 1920x1200@604 Max Resolution (vGA)‡ ③ 1920x1200@604 DirectX* Support ② 11.1/17 OpenGL* Support ③ 1.1.1/17 OpenGL* Support ③ 1.1.1/17 Port Displays Supported † Expansion Options Scalability 150 on PCI Express Revision ② Up to 3. PCI Express Configurations ¹ ② Up to 1x16,2x8,1x8+2x Max # of PCI Express Lanes ③ 1 Package Specifications Sockets Supported ② FCLGA115 Max CPU Configuration Thermal Solution Specification ② PCG 2013 TCASE ② 66.4* Package Size 37.5mm x 37.5mm Advanced Technologies Intel* Optane* Memory Supported ¹ ② N Intel* Turbo Boost Technology † ② N Intel* Turbo Boost Technology † ② N Intel* Turbo Boost Technology † ② N Intel* VPro* Platform Eligibility ¹ ② N Intel* Virtualization Technology for Directed I/O (VT-d) ¹ ② N Intel* Virtualization Technology for Directed I/O (VT-d) ¹ ② N Intel* Turbo Boost Technology for Directed I/O (VT-d) ¹ ② N Intel* Turbo Boost Technology for Directed I/O (VT-d) ¹ ② N Intel* SX-NI ③ N Intel* SX-NI N Intel* SX-NI ③ N Intel* SX-NI N Intel* S	Graphics Output ?	eDP/DP/HDMI/DVI/VG
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Max Resolution (VGA)‡ ② 1920x1200@60t- DirectX* Support ③ 11.1/1 OpenGL* Support ③ 4.4 Intel* Quick Sync Video ② Ye if of Displays Supported ¹ Expansion Options Scalability 15 Onl PCI Express Revision ② Up to 3.1 PCI Express Revision ② Up to 1.1 PCI Express Configurations ¹ ② Up to 1x16, 2x8, 1x8+2x Max if of PCI Express Lanes ③ 1 Package Specifications Sockets Supported ③ FCLGA115 Max CPU Configuration Thermal Solution Specification ② PCG 2013 TCASE ② 66.4* Package Size 37.5mm x 37.5mm Advanced Technologies Intel* Optane* Memory Supported ¹ ② N Intel* Turbo Boost Technology ¹ ② N Intel* Turbo Boost Technology ¹ ② N Intel* Pypor* Platform Eligibility ³ ② N Intel* VPro* Platform Eligibility ³ ② N Intel* VPro* Platform Eligibility ³ ② N Intel* Virtualization Technology (VT-x) ¹ ② Ye Intel* Virtualization Technology for Directed I/O (VT-d) ¹ ② N Intel* TyT-x with Extended Page Tables (EPT) † ② Ye Intel* TSX-NI ② N Intel* SSX-NI ③ N Intel* SXX-NI ③ N Intel* SXX-NI ③ N Intel* SXX-NI ⑥ N	Max Resolution (DP)‡ 👔	2560x1600@60H
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More support options for Intel® Celeron® Processor G1820T (2M Cache, 2.40 GHz)





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Refer to Datasheet for formal definitions of product properties and features.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html? wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

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System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

For benchmarking data see http://www.intel.com/performance.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.



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