



Intel® Celeron® Processor G1820T

2M Cache, 2.40 GHz

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Essentials

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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
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	32 GB
Memory Types ?	DDR3-1333, DDR3L-1333 @ 1.5V
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	21.3 GB/s
ECC Memory Supported † ?	Yes

Processor Graphics

Processor Graphics † ?	Intel® HD Graphics for 4th Generation Intel® Processors
Graphics Base Frequency ?	200 MHz

Graphics Max Dynamic Frequency ?	1.05 GHz
Graphics Video Max Memory ?	1.7 GB
Graphics Output ?	eDP/DP/HDMI/DVI/VGA
Max Resolution (HDMI 1.4)‡ ?	1920x1080@60Hz
Max Resolution (DP)‡ ?	2560x1600@60Hz
Max Resolution (eDP - Integrated Flat Panel)‡ ?	2560x1600@60Hz
Max Resolution (VGA)‡ ?	1920x1200@60Hz
DirectX* Support ?	11.1/12
OpenGL* Support ?	4.3
Intel® Quick Sync Video ?	Yes
# of Displays Supported ‡	3

Expansion Options

Scalability	1S Only
PCI Express Revision ?	Up to 3.0
PCI Express Configurations ‡ ?	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes ?	16

Package Specifications

Sockets Supported ?	FCLGA1150
Max CPU Configuration	1
Thermal Solution Specification ?	PCG 2013A
T _{CASE} ?	66.4°C
Package Size	37.5mm x 37.5mm

Advanced Technologies

Intel® Optane™ Memory Supported ‡ ?	No
Intel® Turbo Boost Technology ‡ ?	No
Intel® vPro™ Platform Eligibility ‡ ?	No
Intel® Hyper-Threading Technology ‡ ?	No
Intel® Virtualization Technology (VT-x) ‡ ?	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ?	No
Intel® VT-x with Extended Page Tables (EPT) ‡ ?	Yes
Intel® TSX-NI ?	No
Intel® 64 ‡ ?	Yes
Instruction Set ?	64-bit
Instruction Set Extensions ?	Intel® SSE4.1, Intel® SSE4.2
Idle States ?	Yes
Enhanced Intel SpeedStep® Technology ?	Yes
Thermal Monitoring Technologies ?	Yes
Intel® Stable Image Platform Program (SIPP) ?	No

Security & Reliability

Intel® AES New Instructions 	No
Secure Key 	Yes
Intel® Trusted Execution Technology ‡ 	No
Execute Disable Bit † 	Yes

More support options for Intel® Celeron® Processor G1820T (2M Cache, 2.40 GHz)



Product Support



Downloads and Software



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Warranty and Replacement



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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.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

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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