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Intel® Celeron® Processor G1620

2M Cache, 2.70 GHz

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Product Collection	Intel® Celeron® Processor G Series
Code Name	Products formerly Ivy Bridge
Vertical Segment	Desktop
Processor Number	G1620
Status	Launched
Launch Date ?	Q1'13
Lithography ?	22 nm
Recommended Customer Price ?	-

Performance

# of Cores ?	2
# of Threads ?	2
Processor Base Frequency ?	2.70 GHz
Cache ?	2 MB SmartCache
Bus Speed ?	5 GT/s DMI
TDP ?	55 W

Supplemental Information

Embedded Options Available ?	Yes
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	32 GB
Memory Types ?	DDR3 1333
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	21 GB/s
ECC Memory Supported ‡ ?	Yes

Processor Graphics

Processor Graphics ‡ ?	Intel® HD Graphics for 3rd Generation Intel® Processors
Graphics Base Frequency ?	650 MHz
Graphics Max Dynamic Frequency ?	1.05 GHz

Intel® Quick Sync Video ?	No
Intel® InTru™ 3D Technology ?	No
Intel® Clear Video HD Technology ?	No
# of Displays Supported ‡	3

Expansion Options

Scalability	1S Only
PCI Express Revision ?	2.0
PCI Express Configurations ‡ ?	up to 1x16, 2x8, 1x8 & 2x4

Package Specifications

Sockets Supported ?	FCLGA1155
Max CPU Configuration	1
Thermal Solution Specification ?	2011C
Package Size	37.5mm x 37.5mm
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Optane™ Memory Supported ‡ ?	No
Intel® Turbo Boost Technology ‡ ?	No
Intel® vPro™ Technology ‡ ?	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® 64 ‡ ?	Yes
Instruction Set ?	64-bit
Instruction Set Extensions ?	SSE4.1/4.2
Intel® My WiFi Technology ?	No
Idle States ?	Yes
Enhanced Intel SpeedStep® Technology ?	Yes
Thermal Monitoring Technologies ?	Yes

Security & Reliability

Intel® AES New Instructions ?	No
Secure Key ?	No
Intel® Trusted Execution Technology ‡ ?	No
Execute Disable Bit ‡ ?	Yes
Anti-Theft Technology ?	No

Product Support

Downloads and Software

Support Community

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.

"Conflict free" and "conflict-free" means "DRC conflict free", which is defined by the U.S. Securities and Exchange Commission rules to mean products that do not contain conflict minerals (tin, tantalum, tungsten and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free. The conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers.

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.

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

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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