



Intel® Pentium® Processor G2030

3M Cache, 3.00 GHz

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Essentials

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Product Collection	Intel® Pentium® Processor G Series
Code Name	Products formerly Ivy Bridge
Vertical Segment	Desktop
Processor Number	G2030
Status	Launched
Launch Date ?	Q2'13
Lithography ?	22 nm
Recommended Customer Price ?	

Performance

# of Cores ?	2
# of Threads ?	2
Processor Base Frequency ?	3.00 GHz
Cache ?	3 MB SmartCache
Bus Speed ?	5 GT/s DMI
TDP ?	55 W

Supplemental Information




Embedded Options Available ?	No
Datasheet	View now

Memory Specifications



Max Memory Size (dependent on memory type) ?	32 GB
Memory Types ?	DDR3 1333/1600
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

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

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® 64 [‡] 	Yes
Instruction Set 	64-bit
Instruction Set Extensions 	Intel® SSE4.1, Intel® SSE4.2
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

More support options for Intel® Pentium® Processor G2030 (3M Cache, 3.00 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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