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Intel® Pentium® Processor

Intel® Pentium® Processor

G3000 Series for Desktop

Products formerly Haswell

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PCN/MDDS INFORMATION

USA (English)

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SR181 929229: MDDS

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Intel® Pentium® Processor G3320TE (3M Cache, 2.30 GHz)

Essentials Memory Specifications Graphics Specifications Expansion Options Package Specifications Advanced Technologies Intel® Data Protection Technology Intel® Platform Protection Technology

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Newsroom

SPECIFICATIONS		
- Essentials		
Status		Launched
Launch Date		Q3'13
Processor Number		G3320TE
# of Cores		2
# of Threads		2
Clock Speed		2.3 GHz
Intel® Smart Cache		3 MB
DMI2		5 GT/s
# of QPI Links		1
Instruction Set		64-bit
Instruction Set Extensions		SSE4.1/4.2
Embedded Options Available	Q	Yes
Lithography		22 nm
Max TDP		35 W
Thermal Solution Specification		PCG 2013A
Recommended Customer Price		
Memory Specifications		
Max Memory Size (dependent on memory type)		32 GB
Memory Types		DDR3-1333/1600
# of Memory Channels		2
Max Memory Bandwidth		25.6 GB/s
ECC Momony Supported t		Voc

Memory Specifications

Max Memory Size (dependent on memory type)

Memory Types

DDR3-1333/1600

of Memory Channels

2

Max Memory Bandwidth

25.6 GB/s

ECC Memory Supported ‡

Graphics Specifications

Chip Shot: Intel's Take on Education Solutions

Graphics Base Frequency

Graphics Max Dynamic Frequency

Intel® Quick Sync Video

No

Graphics Base Frequency

Graphics Max Dynamic Frequency

Intel® Quick Sync Video

Intel® Clear Video HD Technology

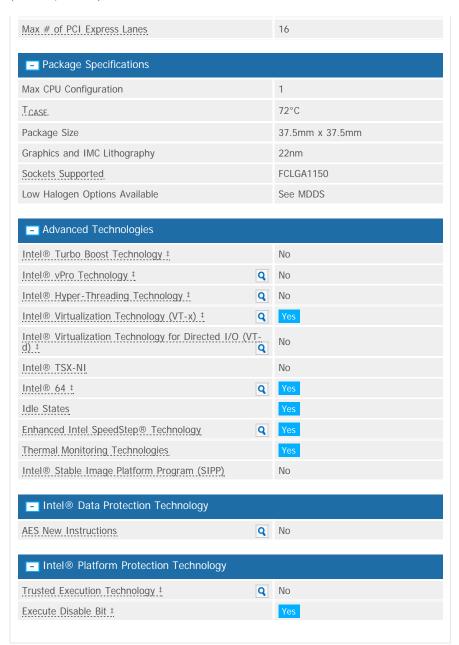
of Displays Supported ‡

Expansion Options

PCI Express Revision

PCI Express Configurations ‡

Up to 1x16, 2x8, 1x8/2x4



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"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-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 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. 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.

Send us your feedback!

ARK Intel® Pentium® Processor G3320TE (3M Cache, 2.30 GHz)					