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PENTIUM'

## Intel® Pentium® Processor G6950 (3M Cache, 2.80 GHz)

# of Threads

Processor Base Frequency

Expansion Options



Download Drivers



		· · · · · · · · · · · · · · · · · · ·	
		Related Products	
		Legacy Intel® Pentium®	
	Launched	Processor  Intel® Pentium® Processor	
	Q1'10	G6000 Series for Desktop	
	G6950	Products formerly Clarkdale	
	3 MB SmartCache	Ctarkdate	
	2.5 GT/s DMI	inte	
	64-bit	SECURITY OF THE PROPERTY OF TH	
ailable	Yes		
	32 nm	Visit the Embedded Design	
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	_		

2.8 GHz

TDP	73 W
Memory Specifications	
Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3 1066
Max # of Memory Channels	2
Max Memory Bandwidth	17 GB/s
Physical Address Extensions	36-bit

Graphics Specifications	
Processor Graphics ‡	Integrated
Graphics Base Frequency	533 MHz
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	No
# of Displays Supported #	2

PCI Express Revision	2.0	
PCI Express Configurations #	1x16, 2x8	
Max # of PCI Express Lanes	16	
Package Specifications		
Max CPU Configuration	1	
TCASE	72.6°C	

TCASE	72.6°C
Package Size	37.5mm x 37.5mm
Processing Die Size	81 mm <sup>2</sup>
# of Processing Die Transistors	382 million
Graphics and IMC Lithography	45 nm
Graphics and IMC Die Size	114 mm <sup>2</sup>
# of Graphics and IMC Die Transistors	177 million
Sockets Supported	FCLGA1156
Low Halogen Options Available	See MDDS
Advanced Technologies	
Intel® Turbo Boost Technology ‡	No
Intel® vPro Technology ‡	No
Intol® Hunor Threading Technology t	No

Intel® Turbo Boost Technology ‡		No
Intel® vPro Technology ‡	Q	No
Intel® Hyper-Threading Technology ‡	Q	No
Intel® Virtualization Technology (VT-x) ‡		Yes
Intel® VT-x with Extended Page Tables (EPT) #	Q	Yes
Intel® 64‡	Q	Yes
Idle States		Yes
Enhanced Intel SpeedStep® Technology	Q	Yes
Intel® Demand Based Switching	Q	No
Thermal Monitoring Technologies		No
Autolé Data Bustastica Taskaslasa		
Intel® Data Protection Technology		
Intel® AES New Instructions	Q	No

	Trusted Execution Technology ‡	No	
	Execute Disable Bit #	Yes	
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Refer to Datasheet for formal definitions of product properties and features.

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

any item at the time of export.

"Announced" 5KUs 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-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.

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 J5-709. requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and for PVC may not be better for the environment.

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.

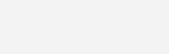
Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIO5.

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