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

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## SPECIFICATIONS

### Essentials

Status	Launched
Launch Date	Q1'10
Processor Number	G6950
# of Cores	2
# of Threads	2
Clock Speed	2.8 GHz
Intel® Smart Cache	3 MB
DMI	2.5 GT/s
Instruction Set	64-bit
Embedded Options Available	Yes
Lithography	32 nm
Max TDP	73 W
VID Voltage Range	0.6500V-1.4000V
Recommended Customer Price	

### Memory Specifications

Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3-1066
# of Memory Channels	2
Max Memory Bandwidth	17 GB/s

### 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

### Expansion Options



• Visit the Embedded Design Center >

## QUICK LINKS

- Products formerly Clarkdale
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## PCN/MDDS Information

### SLBMS

904851: PCN | MDDS

### SLBTG

907931: PCN | MDDS

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Chip Shot: Intel® Identity Protection Technology and MasterCard® MasterPass® Now Available in US, Canada, Aus



USA (English) ▾

### Graphics Specifications

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





### Expansion Options

PCI Express Revision	2.0
PCI Express Configurations ‡	1x16, 2x8
Max # of PCI Express Lanes	16

### Package Specifications

Max CPU Configuration	1
T <sub>CASE</sub>	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® vPro Technology ‡	 No
Intel® Hyper-Threading Technology ‡	 No
Intel® Virtualization Technology (VT-x) ‡	 Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	 Yes
Intel® Trusted Execution Technology ‡	 No
AES New Instructions	 No
Intel® 64 ‡	 Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	 Yes
Intel® Demand Based Switching	 No
Thermal Monitoring Technologies	No
Execute Disable Bit ‡	Yes

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"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

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.

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

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

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.

‡ 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.

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.

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.

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.

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