

Intel (1M)

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 Yes No

Package Specifications

Advanced Technologies

Intel® Platform Protection Technology

COMPATIBLE PRODUCTS

PRODUCT IMAGES

ORDERING / SSPECS / STEPPINGS

Status	Launched
Launch Date	Q3'06
Processor Number	550
# of Cores	1
Clock Speed	2 GHz
L2 Cache	1 MB
FSB Speed	533 MHz
FSB Parity	No
Instruction Set	64-bit
Embedded Options Available	 Yes
Lithography	65 nm
Max TDP	31 W
VID Voltage Range	0.95V-1.30V
Recommended Customer Price	TRAY: \$58.00

Package Specifications

T _{JUNCTION}	100°C
Package Size	35mm x 35mm
Processing Die Size	143 mm ²
# of Processing Die Transistors	291 million
Sockets Supported	PBGA479, PPGA478
Low Halogen Options Available	See MDDs

Advanced Technologies

Intel® Turbo Boost Technology‡	No
Intel® Hyper-Threading Technology‡	 No
Intel® Virtualization Technology (VT-x)‡	 No
Intel® 64‡	 Yes
Idle States	No
Enhanced Intel SpeedStep® Technology	 No
Intel® Demand Based Switching	 No

Intel® Platform Protection Technology

Trusted Execution Technology‡	 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.

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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.

‡ 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.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See <http://www.intel.com/technology/turboboost/> for more information.

See <http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/ht-technology.html?wapkw=hyper+threading> for more information including details on which processors support Intel® HT Technology.

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



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