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Intel® Core™ i7 Desktop Processor

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i7-2600



Intel® Core™ i7-2600 Processor (8M Cache, 3.40 GHz)

SPECIFICATIONS

SPECIFICATIONS

All
Essentials
Memory Specifications
Graphics Specifications
Expansion Options
Package Specifications
Advanced Technologies
COMPATIBLE PRODUCTS
BLOCK DIAGRAMS
ORDERING / SSPECS / STEPPINGS

Essentials		
Status		Launched
Launch Date		Q1'11
Processor Number		i7-2600
# of Cores		4
# of Threads		8
Clock Speed		3.4 GHz
Max Turbo Frequency		3.8 GHz
Intel® Smart Cache		8 MB
Bus/Core Ratio		34
Instruction Set		64-bit
Instruction Set Extensions		SSE4.1/4.2, AVX
Embedded Options Available	P	Yes
Lithography		32 nm
Max TDP		95 W
Tray 1ku Budgetary Price		\$294.00
Memory Specifications		
Max Memory Size (dependent on memory type)		32 GB
Memory Types		DDR3-1066/1333
# of Memory Channels		2
Max Memory Bandwidth		21 GB/s
ECC Memory Supported	A	No
Graphics Specifications		
Integrated Graphics	2	Yes
Intel® HD Graphics		Yes
Intel® HD Graphics with Dynamic Frequency		Yes
Graphics Base Frequency		850 MHz
Graphics Max Dynamic Frequency		1.35 GHz
Intel® Quick Sync Video		Yes
Intel® InTRU™ 3D Technology,		Yes
Intel® Wireless Display		No
Intel® Flexible Display Interface (Intel® FDI)		Yes
		Yes
Intel® Clear Video HD Technology		
Intel® Clear Video HD Technology Dual Display Capable		Yes

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PCI Express Revision		2.0
# of PCI Express Ports		1
Package Specifications		
Max CPU Configuration		1
TCASE		72.6°C
Package Size		37.5mm x 37.5mm
Sockets Supported		LGA1155
Halogen Free Options Available		Yes
Advanced Technologies		
Intel® Turbo Boost Technology		2.0
Intel® Hyper-Threading Technology	۶	Yes
Intel® Virtualization Technology (VT-x)	۶	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)	٦	Yes
Intel® Trusted Execution Technology	۶	Yes
AES New Instructions	۶	Yes
Intel® 64	۶	Yes
Idle States		Yes
Enhanced Intel SpeedStep® Technology	۶	Yes
Thermal Monitoring Technologies		Yes
Intel® Fast Memory Access		Yes
Intel® Flex Memory Access		Yes
Execute Disable Bit		Yes

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64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See www.intel.com/products/ht/hyperthreading_more.htm for more information including details on which processors support HT Technology.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in development.

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