

Intel® Core™ i7-2600 Processor
8M Cache, up to 3.80 GHz

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Specifications

Essentials

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Product Collection	Legacy Intel® Core™ Processors
Code Name	Products formerly Sandy Bridge
Vertical Segment	Desktop
Processor Number ⓘ	i7-2600
Lithography ⓘ	32 nm
Use Conditions ⓘ	PC/Client/Tablet

CPU Specifications

Total Cores ⓘ	4
Total Threads ⓘ	8
Max Turbo Frequency ⓘ	3.80 GHz
Intel® Turbo Boost Technology 2.0 Frequency ⓘ	3.80 GHz
Processor Base Frequency ⓘ	3.40 GHz
Cache ⓘ	8 MB Intel® Smart Cache
Bus Speed ⓘ	5 GT/s
TDP ⓘ	95 W

Supplemental Information

Marketing Status	Discontinued
Launch Date ⓘ	Q1'11
Servicing Status ⓘ	End of Servicing Lifetime
End of Servicing Updates Date ⓘ	Tuesday, December 31, 2019
Embedded Options Available ⓘ	Yes
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type) ⓘ	32 GB
Memory Types ⓘ	DDR3 1066/1333
Max # of Memory Channels ⓘ	2
Max Memory Bandwidth ⓘ	21 GB/s
ECC Memory Supported † ⓘ	No

GPU Specifications

Graphics Base Frequency ⓘ	850 MHz
Graphics Max Dynamic Frequency ⓘ	1.35 GHz
Intel® Quick Sync Video ⓘ	Yes
Intel® InTru™ 3D Technology ⓘ	Yes
Intel® Flexible Display Interface (Intel® FDI) ⓘ	Yes
Intel® Clear Video HD Technology ⓘ	Yes
# of Displays Supported †	2
Device ID	0x102

Expansion Options

PCI Express Revision ⓘ	2.0
Max # of PCI Express Lanes ⓘ	16

Package Specifications

Sockets Supported ⓘ	LGA1155
Max CPU Configuration	1
T _{CASE} ⓘ	72.6°C
Package Size	37.5mm x 37.5mm

Advanced Technologies

Intel® Turbo Boost Technology † ⓘ	2.0
Intel® Hyper-Threading Technology † ⓘ	Yes
Intel® 64 † ⓘ	Yes
Instruction Set ⓘ	64-bit
Instruction Set Extensions ⓘ	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX
Idle States ⓘ	Yes
Enhanced Intel SpeedStep® Technology ⓘ	Yes
Thermal Monitoring Technologies ⓘ	Yes
Intel® Fast Memory Access ⓘ	Yes
Intel® Flex Memory Access ⓘ	Yes

Security & Reliability

Intel vPro® Eligibility † ⓘ	Intel vPro® Platform
Intel® AES New Instructions ⓘ	Yes
Intel® Trusted Execution Technology † ⓘ	Yes
Execute Disable Bit † ⓘ	Yes
Intel® Virtualization Technology (VT-x) † ⓘ	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) † ⓘ	Yes
Intel® VT-x with Extended Page Tables (EPT) † ⓘ	Yes

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Refer to Datasheet for formal definitions of product properties and features.

‡ 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.

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.

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

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

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 and applicability of this technology.

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.

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

Check <http://ipt.intel.com/> for systems that support Intel® Identity Protection Technology (Intel® IPT).

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.

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