



Intel® Core™ i5-4400E Processor

3M Cache, up to 3.30 GHz

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Essentials

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Product Collection	4th Generation Intel® Core™ i5 Processors
Code Name	Products formerly Haswell
Vertical Segment	Embedded
Processor Number	i5-4400E
Status	Launched
Launch Date	Q3'13
Lithography	22 nm
Recommended Customer Price	
Use Conditions	Industrial Commercial Temp

Performance

# of Cores	2
# of Threads	4
Processor Base Frequency	2.70 GHz
Max Turbo Frequency	3.30 GHz
Cache	3 MB SmartCache
Bus Speed	5 GT/s DMI2
TDP	37 W

Supplemental Information

Embedded Options Available	Yes
Datasheet	View now
Additional Information URL	View now

Memory Specifications

Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3L 1333/1600
Max # of Memory Channels	2
ECC Memory Supported †	Yes

Processor Graphics

Processor Graphics †	Intel® HD Graphics 4600
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Graphics Base Frequency ?	400 MHz
Graphics Max Dynamic Frequency ?	1.00 GHz
Graphics Video Max Memory ?	1.7 GB
Graphics Output ?	eDP/DP/HDMI/VGA
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 †	3

Expansion Options

Scalability	1S Only
PCI Express Revision ?	3.0
PCI Express Configurations † ?	Up to 1x16, 2x8, 1x8 2x4
Max # of PCI Express Lanes ?	16

Package Specifications





Sockets Supported ?	FCBGA1364
Max CPU Configuration	1
T _{JUNCTION} ?	100°C
Package Size	37.5mm x 32mm x 1.6mm
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Turbo Boost Technology † ?	2.0
Intel® vPro™ Platform Eligibility † ?	Yes
Intel® Hyper-Threading Technology † ?	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
Intel® TSX-NI ?	No
Intel® 64 † ?	Yes
Instruction Set ?	64-bit
Instruction Set Extensions ?	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
Idle States ?	Yes
Enhanced Intel SpeedStep® Technology ?	Yes
Thermal Monitoring Technologies ?	Yes
Intel® Stable Image Platform Program (SIPP) ?	No

Security & Reliability

Intel® AES New Instructions ?	Yes
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Secure Key 	Yes
Intel® Trusted Execution Technology ‡ 	Yes
Execute Disable Bit ‡ 	Yes
Anti-Theft Technology 	Yes

More support options for Intel® Core™ i5-4400E Processor (3M Cache, up to 3.30 GHz)



Product Support



Downloads and Software



Support Community



Warranty and Replacement



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

"Announced" SKUs 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.

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.

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.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, 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. If sold in bulk, price represents individual unit. 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.

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 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.

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

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 BIOS.

