



N/A



Search specifications





Intel® Xeon® Processor E3-1220 v5

8M Cache, 3.00 GHz

Craphics Output ?

Add to Compare

Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

Processor Graphics

Expansion Options

Package Specifications

Advanced Technologies

Security & Reliability

Ordering and Compliance

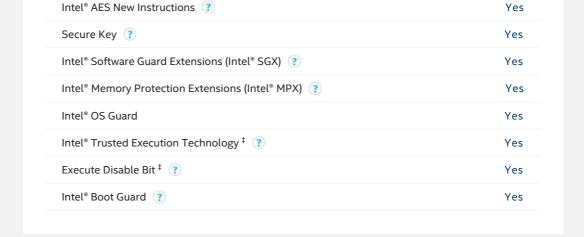
Product Images

Compatible Products

Downloads and Software

Essentials	Export specification
Product Collection	Intel® Xeon® Processor E3 v5 Family
Code Name	Products formerly Skylake
Vertical Segment	Server
Processor Number	E3-1220V5
Status	Launched
Launch Date ?	Q4'15
Lithography ?	14 nm
Recommended Customer Price ?	-
Performance	
# of Cores ?	4
# of Threads ?	4
Processor Base Frequency ?	3.00 GHz
Max Turbo Frequency 🕐	3.50 GHz
Cache ?	8 MB SmartCache
Bus Speed ?	8 GT/s DMI3
TDP ?	80 W
VID Voltage Range ?	0.55V-1.52V
Supplemental Information	
Embedded Options Available ?	No
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type)	? 64 GB
Memory Types ?	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	34.1 GB/s

4K Support ?	N
Max Resolution (HDMI 1.4)‡ 👔	N _i
Max Resolution (DP)‡ 🕐	N _/
Max Resolution (eDP - Integrated Flat Panel)‡ 🔞	N _i
Max Resolution (VGA)‡ ?	N _i
DirectX* Support ?	N _i
OpenGL* Support ?	N _i
Intel® Quick Sync Video ?	N
Intel® InTru™ 3D Technology ?	N
Intel® Clear Video HD Technology 😯	1
Intel® Clear Video Technology 🕡	N
# of Displays Supported [‡]	
Expansion Options	
Scalability	1S Or
PCI Express Revision 🔞	3
PCI Express Configurations ‡ 👔	1x16, 2x8, 1x8+2
Max # of PCI Express Lanes ?	
Package Specifications	
Sockets Supported ?	FCLGA11
Max CPU Configuration	
Package Size	37.5mm x 37.5m
Package Size Low Halogen Options Available	
Low Halogen Options Available	See MDE
Low Halogen Options Available Advanced Technologies	See MDE
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ?	See MDE
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ?	See MDE
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ? Intel® Hyper-Threading Technology ‡ ?	See MDD
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ? Intel® Hyper-Threading Technology ‡ ? Intel® Virtualization Technology (VT-x) ‡ ?	See MDE 2 Y N T-d) ‡ ? Y
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ? Intel® Hyper-Threading Technology † ? Intel® Virtualization Technology (VT-x) ‡ ? Intel® Virtualization Technology for Directed I/O (VT-x) † ?	See MDE Y Y T-d) ‡ ? Y
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ? Intel® Hyper-Threading Technology † ? Intel® Virtualization Technology (VT-x) ‡ ? Intel® Virtualization Technology for Directed I/O (VT-x) with Extended Page Tables (EPT) ‡ ?	See MDE 2 Y 1 T-d) ‡ ? Y Y
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ? Intel® Hyper-Threading Technology † ? Intel® Virtualization Technology (VT-x) ‡ ? Intel® Virtualization Technology for Directed I/O (VTINTEL® VT-x with Extended Page Tables (EPT) ‡ ? Intel® TSX-NI ?	See MDE 2 Y 1 T-d) ‡ ? Y Y Y
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ? Intel® Hyper-Threading Technology † ? Intel® Virtualization Technology (VT-x) ‡ ? Intel® Virtualization Technology for Directed I/O (VT) Intel® VT-x with Extended Page Tables (EPT) ‡ ? Intel® TSX-NI ? Intel® 64 ‡ ?	See MDE 2 Y 1 Y Y Y Y Y 64-I
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ? Intel® Hyper-Threading Technology † ? Intel® Virtualization Technology (VT-x) ‡ ? Intel® Virtualization Technology for Directed I/O (VTINTEL® VT-x with Extended Page Tables (EPT) ‡ ? Intel® TSX-NI ? Intel® 64 ‡ ? Instruction Set ?	See MDE 2 Y T-d) ‡ ? Y Y Y 64-I Intel® SSE4.1, Intel® SSE4.2, Intel® AV
Low Halogen Options Available Advanced Technologies Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ? Intel® Hyper-Threading Technology † ? Intel® Virtualization Technology (VT-x) ‡ ? Intel® Virtualization Technology for Directed I/O (VT) Intel® VT-x with Extended Page Tables (EPT) ‡ ? Intel® TSX-NI ? Intel® 64 ‡ ? Instruction Set ? Instruction Set Extensions ?	37.5mm x 37.5m See MDE 2 Y Y Y Y Y 4 Intel® SSE4.1, Intel® SSE4.2, Intel® AVX Y Y Y Y Y Y Y Y Y Y Y Y Y



More support options for Intel® Xeon® Processor E3-1220 v5 (8M Cache, 3.00 GHz)





Downloads and Software



Support Community



Warranty and Replacement



Need more help?

Contact support



All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

Intel classifications are for informational purposes only and consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company as an importer and/or exporter is responsible for determining the correct classification of your transaction.

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.



Company Information Our Commitment Communities Investor Relations Contact Us

Newsroom Jobs



© Intel Corporation | Terms of Use | *Trademarks | Privacy | Cookies | Supply Chain Transparency | Site Map