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Intel® Xeon® Processor E3 v2 Family

Intel® Xeon® Processor E3-1200 v2 Product Family

E3-1225V2

Intel® Xeon® Processor E3-1225 v2
(8M Cache, 3.20 GHz)

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SPECIFICATIONS

Essentials

Status	Launched
Launch Date	Q2'12
Processor Number	E3-1225V2
# of Cores	4
# of Threads	4
Clock Speed	3.2 GHz
Max Turbo Frequency	3.6 GHz
Intel® Smart Cache	8 MB
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	AVX, SSE4.1,SSE4.2
Embedded Options Available	Yes
Lithography	22 nm
Max TDP	77 W
Recommended Customer Price	

Memory Specifications

Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1333/1600
# of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC memory Supported ‡	Yes

Graphics Specifications

Processor Graphics ‡	Intel® HD Graphics P4000
Graphics Base Frequency	650 MHz
Graphics Max Dynamic Frequency	1.25 GHz
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Flexible Display Interface (Intel® FDI)	Yes

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PCN/MDDS Information

SR0PJ

919975: PCN | MDDS

920746: PCN | MDDS











Newsroom

Chip Shot: Tablets and Laptops Top Consumer Electronics Gifts This Year

USA (English)

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2-8M-Cache-3_20-GHz[10/27/2013 10:02:53 AM]

Intel® Clear Video HD Technology	Yes
# of Displays Supported ‡	3
Expansion Options	
PCI Express Revision	3.0
PCI Express Configurations ‡	1x16 & 1x4, 2x8 & 1x4 or 1x8 & 3x4
Package Specifications	
Max CPU Configuration	1
Sockets Supported	FCLGA1155, FCLGA1155
Low Halogen Options Available	See MDDS
Advanced Technologies	
Intel® Turbo Boost Technology ‡	2.0
Intel® vPro Technology ‡	 Yes
Intel® Hyper-Threading Technology ‡	 No
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® 64 ‡	 Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	 Yes
Intel® Demand Based Switching	 Yes
Thermal Monitoring Technologies	Yes
Intel® Fast Memory Access	Yes
Intel® Flex Memory Access	Yes
Intel® Identity Protection Technology ‡	Yes
Intel® Data Protection Technology	
AES New Instructions	 Yes
Intel® Platform Protection Technology	
Trusted Execution Technology ‡	 Yes
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.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers 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. 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.

‡ 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.

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.


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.

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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