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Home　　　**Intel® Processors**　　　**Intel® Xeon® Processor E3 Family**　　　**Intel® Xeon® Processor E3-1200 Series**

Intel® Xeon® Processor E3-1275V2 (8M Cache, 3.50 GHz)

SPECIFICATIONS

All

Essentials

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Advanced Technologies

COMPATIBLE PRODUCTS

ORDERING / **SSPECS** / **STEPPINGS**

Specifications

Essentials

Status	Launched
Launch Date	Q2'12
Processor Number	E3-1275V2
# of Cores	4
# of Threads	8
Clock Speed	3.5 GHz
Max Turbo Frequency	3.9 GHz
Intel® Smart Cache	8 MB
Bus/Core Ratio	35
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	AVX, SSE4.1,S
Embedded Options Available 🔎	Yes
Lithography	22 nm
Max TDP	77 W
Recommended Customer Price	TRAY: $339 BOX : $350

Memory Specifications

Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1333/16
# of Memory Channels	2

Max Memory Bandwidth		25.6 GB/s

*Trademarks

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
Intel® Clear Video HD Technology		Yes
Dual Display Capable		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
Package Size	37.5mm x 37.5mm
Sockets Supported	FCLGA1155
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Turbo Boost Technology		2.0
Intel® vPro Technology		Yes
Intel® Hyper-Threading Technology	🔎	Yes
Intel® Virtualization Technology (VT-x)	🔎	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)	🔎	Yes
Intel® Trusted Execution Technology	🔎	Yes
AES New Instructions	🔎	Yes
Intel® 64	🔎	Yes

"Announced" SKUs are not y
availability.

The Recommended Custome
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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
Execute Disable Bit	Yes
Intel® VT-x with Extended Page Tables (EPT)	Yes

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product features, availability,
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Low Halogen: Applies only to
and PVC in the final product.
finished assembly meet JS-7
21 requirements. The replace
better for the environment.

Some products can support
particular, i7-2630QM/i7-263
-2415M. Please contact OEN
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Intel® Xeon® Processor E3-1275V2 (8M Cache, 3.50 GHz)

SPECIFICATIONS

COMPATIBLE PRODUCTS

ORDERING / SSPECS / STEPPINGS

All

Ordering / **sSpecs** / **Steppings**

Retired and Discontinued

ORDERING AND SPEC INFORMATION

Ordering and Spec Information
Intel® Xeon® Processor E3-1275V2 (8M Cache, 3.50 GHz) FC-LGA12C, Tray

Socket	Step	Step TDP	Ordering Code	Spec Code	VT-x	ECCN	CCATS	US HTS	RCP
FCLGA1155	E1	77 W	CM8063701098702	SR0PA	Yes	5A992C	G077159	8542310000-HYBRD	$339

Boxed Intel® Xeon® Processor E3-1275V2 (8M Cache, 3.50 GHz) FC-LGA12C

Socket	Step	Step TDP	Ordering Code	Spec Code	VT-x	ECCN	CCATS	US HTS	RCP
FCLGA1155	E1	77 W	BX80637E31275V2	SR0PA	Yes	5A992C	G077159	8542310000-HYBRD	$350

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

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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/products/processor_number for details.

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.

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.

Max Turbo Frequency refers to the maximum single-core frequency that can be achieved with Intel® Turbo Boost Technology, which requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

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.

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

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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.

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.