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[Home](#)[Intel® Processors](#)[Intel® Xeon® Processor E3 Family](#)[Intel® Xeon® Processor E3-1200 Series](#)[E3-1225V2](#)

Intel® Xeon® Processor E3-1225V2 (8M Cache, 3.20 GHz)

SPECIFICATIONS

All

Essentials

Memory Specifications

Graphics Specifications

Expansion Options

Package Specifications

Advanced Technologies

COMPATIBLE PRODUCTS

ORDERING / SSPECS / STEPPINGS

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 |
| Bus/Core Ratio | 32 |
| 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 | TRAY: \$209 BOX: \$224 |

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 |
| 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 |

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- [Products formerly Ivy Bridge](#)
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ADDITIONAL INFORMATION

SUPPORT AND DOWNLOADS

- [Software Downloads >](#)
- [Support Overview >](#)

PCN/MDDS INFORMATION

| Package Specifications | |
|--|---|
| Max CPU Configuration | 1 |
| 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 |  No |
| 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 |
| 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 |

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

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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.



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E3-1225V2



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SPECIFICATIONS

COMPATIBLE PRODUCTS

ORDERING / SSPECS / STEPPINGS

All

Ordering / sSpecs / Steppings

Retired and Discontinued

ORDERING AND SPEC INFORMATION

Ordering and Spec Information

Intel® Xeon® Processor E3-1225V2 (8M Cache, 3.20 GHz) FC-LGA12C, Tray

| Socket | Step | Step TDP | Ordering Code | Spec Code | VT-x | ECCN | CCATS | US HTS | RCP |
|-----------|------|----------|-----------------|-----------|------|--------|---------|------------------|-------|
| FCLGA1155 | E1 | 77 W | CM8063701160603 | SR0PJ | Yes | 5A992C | G077159 | 8542310000-HYBRD | \$209 |

Boxed Intel® Xeon® Processor E3-1225V2 (8M Cache, 3.20 GHz) FC-LGA12C

| Socket | Step | Step TDP | Ordering Code | Spec Code | VT-x | ECCN | CCATS | US HTS | RCP |
|-----------|------|----------|-----------------|-----------|------|--------|---------|------------------|-------|
| FCLGA1155 | E1 | 77 W | BX80637E31225V2 | SR0PJ | Yes | 5A992C | G077159 | 8542310000-HYBRD | \$224 |

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