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### Understanding [Embedded - Microprocessors](#)

Embedded microprocessors are specialized computing chips designed to perform specific tasks within an embedded system. Unlike general-purpose microprocessors found in personal computers, embedded microprocessors are tailored for dedicated functions within larger systems, offering optimized performance, efficiency, and reliability. These microprocessors are integral to the operation of countless electronic devices, providing the computational power necessary for controlling processes, handling data, and managing communications.

### Applications of [Embedded - Microprocessors](#)

Embedded microprocessors are utilized across a broad spectrum of applications, making them indispensable in

#### Details

|                                 |   |
|---------------------------------|---|
| Product Status                  | Obsolete  |
| Core Processor                  | Xeon E3-1275 v2   |
| Number of Cores/Bus Width       | 4 Core, 64-Bit  |
| Speed                           | 3.5GHz  |
| Co-Processors/DSP               | -   |
| RAM Controllers                 | -   |
| Graphics Acceleration           | Yes   |
| Display & Interface Controllers | -   |
| Ethernet                        | -   |
| SATA                            | -   |
| USB                             | -   |
| Voltage - I/O                   | -   |
| Operating Temperature           | -   |
| Security Features               | -   |
| Package / Case                  | 1155-LGA Module   |
| Supplier Device Package         | 1155-FCLGA  |
| Purchase URL                    | <a href="https://www.e-xfl.com/product-detail/advantech/96mpxe-3-5-8m11t">https://www.e-xfl.com/product-detail/advantech/96mpxe-3-5-8m11t</a> |

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

### SPECIFICATIONS


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### 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, SSE4.2   |
| Embedded Options Available |  Yes |
| Lithography                | 22 nm   |
| Max TDP                    | 77 W  |
| Recommended Customer Price | TRAY: \$339<br>BOX : \$350  |

#### 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  |
| <b>*Trademarks</b>                                       |  |
| ECC Memory Supported                                     |  Yes                                  |
| <b>Graphics Specifications</b>                           |  |
| 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                                    |
| <b>Expansion Options</b>                                 |  |
| PCI Express Revision                                     | 3.0  |
| PCI Express Configurations                               |  1x16 & 1x4, 2x8 & 1x4 or 1x8 & 3x4 |
| <b>Package Specifications</b>                            |  |
| Max CPU Configuration                                    | 1  |
| Package Size   | 37.5mm x 37.5mm  |
| Sockets Supported  | FCLGA1155  |
| Low Halogen Options Available                            | See MDDS   |
| <b>Advanced Technologies</b>                             |  |
| 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 Custom are for direct Intel customers etc. not included. Prices may special promotional arranger formal pricing offer from Intel obtain a formal price quotatic

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Hyper-Threading Technology processor supporting HT Tec operating system. Performan you use. See [www.intel.com/](http://www.intel.com/) including details on which pr

64-bit computing on Intel® ai chipset, BIOS, operating sys architecture. Processors will architecture-enabled BIOS. F software configurations. Con


Max Turbo Frequency refers with Intel® Turbo Boost Tec Boost Technology capability. on hardware, software, and c on whether your system deliv [www.intel.com/technology/tu](http://www.intel.com/technology/tu)

Enabling Execute Disable Bit Disable Bit capability and a s on whether your system deliv

Intel® Virtualization Technol BIOS, virtual machine monitc for it. Functionality, performa software configurations. Intel currently in development.

System and Maximum TDP i not all I/Os for chipsets are u

All information provided is su changes to manufacturing lif without notice. The informati

|   |   |     |
|---|---|-----|
| 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,  
contact system vendor for m

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 OEM  
update.

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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](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](http://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/](http://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.

\*Trademarks

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