



Intel® Xeon® Processor E5-2695 v4

45M Cache, 2.10 GHz

Specifications

Compatible Products

Product Images

Ordering and Compliance

Ordering and spec information

Boxed Intel® Xeon® Processor E5-2695 v4 (45M Cache, 2.10 GHz) FC-LGA14A

| | |
|---------------|-----------------|
| Spec Code | SR2J1 |
| Ordering Code | BX80660E52695V4 |
| Step | B0 |
| RCP | \$2428.00 |

Intel® Xeon® Processor E5-2695 v4 (45M Cache, 2.10 GHz) FC-LGA14A, Tray

| | |
|---------------|-----------------|
| Spec Code | SR2J1 |
| Ordering Code | CM8066002023801 |
| Step | B0 |
| RCP | \$2424.00 |

Trade compliance information

| | |
|--------|------------|
| ECCN | 5A992C |
| CCATS | G077159 |
| US HTS | 8542310001 |

Declaration of Conformity

- [BX80660E52695V4](#)

Downloads and Software

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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.

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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.

Intel® Xeon® Processor E5-2695 v4 Add to Compare
45M Cache, 2.10 GHz

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Essentials Export specifications

| | |
|---|-------------------------------------|
| Product Collection | Intel® Xeon® Processor E5 v4 Family |
| Code Name | Products formerly Broadwell |
| Vertical Segment | Server |
| Processor Number | E5-2695V4 |
| Status | Launched |
| Launch Date [?] | Q1'16 |
| Lithography [?] | 14 nm |
| Recommended Customer Price [?] | \$2424.00 - \$2428.00 |

Performance

| | |
|---------------------------------------|------------------|
| # of Cores [?] | 18 |
| # of Threads [?] | 36 |
| Processor Base Frequency [?] | 2.10 GHz |
| Max Turbo Frequency [?] | 3.30 GHz |
| Cache [?] | 45 MB SmartCache |
| Bus Speed [?] | 9.6 GT/s QPI |
| # of QPI Links [?] | 2 |
| TDP [?] | 120 W |
| VID Voltage Range [?] | 0 |

Supplemental Information

| | |
|---|--------------------------|
| Embedded Options Available [?] | Yes |
| Datasheet | View now |

Memory Specifications

| | |
|---|--------------------------|
| Max Memory Size (dependent on memory type) [?] | 1.54 TB |
| Memory Types [?] | DDR4 1600/1866/2133/2400 |
| Max # of Memory Channels [?] | 4 |
| Max Memory Bandwidth [?] | 76.8 GB/s |
| Physical Address Extensions [?] | 46-bit |
| ECC Memory Supported ¹ [?] | Yes |

Expansion Options

| | |
|--|-------------|
| Scalability | 2S |
| PCI Express Revision [?] | 3.0 |
| PCI Express Configurations ¹ [?] | x4, x8, x16 |
| Max # of PCI Express Lanes [?] | 40 |

Package Specifications

| | |
|--------------------------------|---------------|
| Sockets Supported [?] | FCLGA2011-3 |
| Max CPU Configuration | 2 |
| TCASE [?] | 84°C |
| Package Size | 45mm x 52.5mm |
| Low Halogen Options Available | See MDSS |


Advanced Technologies


| | |
|--|-------------|
| Intel® Turbo Boost Technology ¹ [?] | 2.0 |
| Intel® vPro™ Technology ¹ [?] | Yes |
| Intel® Hyper-Threading Technology ¹ [?] | Yes |
| Intel® Virtualization Technology (VT-x) ¹ [?] | Yes |
| Intel® Virtualization Technology for Directed I/O (VT-d) ¹ [?] | Yes |
| Intel® VT-x with Extended Page Tables (EPT) ¹ [?] | Yes |
| Intel® TSX-Alt [?] | Yes |
| Intel® 64 [?] | Yes |
| Instruction Set [?] | 64-bit |
| Instruction Set Extensions [?] | Intel® AVX2 |
| Idle States [?] | Yes |
| Enhanced Intel SpeedStep® Technology [?] | Yes |
| Intel® Demand Based Switching [?] | Yes |
| Thermal Monitoring Technologies [?] | Yes |
| Intel® Flex Memory Access [?] | No |
| Intel® Identity Protection Technology ¹ [?] | No |

Security & Reliability

| | |
|---|-----|
| Intel® AES New Instructions [?] | Yes |
| Secure Key [?] | Yes |
| Intel® OS Guard | Yes |
| Intel® Trusted Execution Technology ¹ [?] | Yes |
| Execute Disable Bit ¹ [?] | Yes |

More support options for Intel® Xeon® Processor E5-2695 v4 (45M Cache, 2.10 GHz)

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