Yes



Support Home > Product Specifications > Processors

Search specifications





# Intel® Xeon® Processor E5-2650L v4

ECC Memory Supported ‡ ?

35M Cache, 1.70 GHz

Add to Compare

### Specifications

#### Essentials

Performance

Supplemental Information

**Memory Specifications** 

**Expansion Options** 

Package Specifications

Advanced Technologies

Security & Reliability

## Ordering and Compliance

#### **Product Images**

### **Compatible Products**

Downloads and Software

Essentials	Export specifications
Product Collection	Intel® Xeon® Processor E5 v4 Family
Code Name	Products formerly Broadwell
Vertical Segment	Server
Processor Number	E5-2650LV4
Status	Launched
Launch Date 😯	Q1'16
Lithography ?	14 nm
Recommended Customer Price ?	
Performance	
# of Cores 🔞	14
# of Threads 🔞	28
Processor Base Frequency 🕧	1.70 GHz
Max Turbo Frequency 🕐	2.50 GHz
Cache ?	35 MB SmartCache
Bus Speed 🔞	9.6 GT/s QPI
# of QPI Links 🔞	2
TDP ?	65 W
VID Voltage Range 💿	0
Supplemental Information	
Embedded Options Available ?	No
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
FCC Mamon Cumparted †	V

Scalability	2
PCI Express Revision ?	3.
PCI Express Configurations ‡ 🕡	x4, x8, x1
Max # of PCI Express Lanes ③	40
Package Specifications	
Sockets Supported ?	FCLGA2011-
Max CPU Configuration	
T <sub>CASE</sub> ?	64°
Package Size	45mm x 52.5mr
Advanced Technologies	
Intel® Turbo Boost Technology ‡ 👔	2.
Intel® vPro™ Platform Eligibility ‡ 🕡	Ye
Intel® Hyper-Threading Technology ‡ 🔞	Ye
Intel® Virtualization Technology (VT-x) ‡ 💿	Ye
Intel® Virtualization Technology for Directed I/O (VT-d)‡ 👔	Ye
Intel® VT-x with Extended Page Tables (EPT) ‡ ?	Ye
Intel® TSX-NI 🔞	Ye
Intel® 64 ‡ 💽	Ye
Instruction Set  ?	64-b
Instruction Set Extensions ?	Intel® AVX
Idle States ?	Ye
Enhanced Intel SpeedStep® Technology ?	Ye
Intel® Demand Based Switching ?	Ye
Thermal Monitoring Technologies ?	Ye
Intel® Flex Memory Access ?	N
Intel® Identity Protection Technology ‡ ?	N
Security & Reliability	
Intel® AES New Instructions ?	Ye
Secure Key ?	Ye
Intel® OS Guard	Ye
Intel® Trusted Execution Technology ‡ 👔	Ye
Execute Disable Bit ‡ ?	Ye

More support options for Intel® Xeon® Processor E5-2650L v4 (35M Cache, 1.70 GHz)



#### Downloads and Software







# Need more help?

Contact support



All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

Intel classifications are for informational purposes only and consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company as an importer and/or exporter is responsible for determining the correct classification of your transaction.

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.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit  $purchase\ quantities, and\ are\ subject\ to\ change\ without\ notice.\ Taxes\ and\ shipping,\ etc.\ not\ included.\ Prices\ may\ vary\ for\ other\ package\ types\ and\ shipping,\ etc.\ not\ included.\ Prices\ may\ vary\ for\ other\ package\ types\ and\ shipping,\ etc.\ not\ included.\ Prices\ may\ vary\ for\ other\ package\ types\ and\ shipping,\ etc.\ not\ included.\ Prices\ may\ vary\ for\ other\ package\ types\ and\ shipping\ etc.\ not\ included.\ Prices\ may\ vary\ for\ other\ package\ types\ and\ shipping\ etc.\ not\ included.\ Prices\ may\ vary\ for\ other\ package\ types\ and\ not\ package\ types\ and\ not\ package\ types\ and\ not\ package\ types\ not\ types\ not\ package\ types\ not\ types\ not$ shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. 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.

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

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.



Company Information Our Commitment Communities Investor Relations Contact Us Newsroom Jobs













© Intel Corporation | Terms of Use | \*Trademarks | Privacy | Cookies | Supply Chain Transparency | Site Map