Intel® Xeon® Processor E5-2648L v3

30M Cache, 1.80 GHz

Specifications

Compatible Products

Product Images

Ordering and Compliance

Ordering and spec information

Intel® Xeon® Processor E5-2648L v3 (30M Cache, 1.80 GHz) FC-LGA12A, Tray

Spec Code	SR1XW
Ordering Code	CM8064401546007
Step	M1
RCP	$1544.00

Trade compliance information

ECCN	5A992C
CCATS	G077159
US HTS	8542310001

PCN/MDDS Information

SR1XW

935854	PCN	MDDS

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.

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 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.

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.

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Specifications

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- Expansion Options
- Package Specifications
- Advanced Technologies
- Security & Reliability

Ordering and Compliance

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Essentials

⊕ Export specifications

Product Collection	Intel® Xeon® Processor E5 v3 Family
Code Name	Products formerly Haswell
Vertical Segment	Embedded
Processor Number	E5-2648LV3
Status	Launched
Launch Date ?	Q3'14
Lithography ?	22 nm
Recommended Customer Price ?	$1544.00
Use Conditions ?	Communications, Server/Enterprise

Performance

# of Cores ?	12
# of Threads ?	24
Processor Base Frequency ?	1.80 GHz
Max Turbo Frequency ?	2.50 GHz
Cache ?	30 MB SmartCache
Bus Speed ?	9.6 GT/s QPI
# of QPI Links ?	2
TDP ?	75 W
VID Voltage Range ?	0.65V–1.30V

Supplemental Information

Embedded Options Available ?	Yes
Datasheet	View now
Product Brief	View now
Additional Information URL	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	768 GB
Memory Types ?	DDR4 1600/1866/2133
Max # of Memory Channels ?	4
Max Memory Bandwidth ?	68 GB/s
Physical Address Extensions ?	46-bit
ECC Memory Supported ‡ ?	Yes

Expansion Options

Scalability	2S
PCI Express Revision ?	3.0
PCI Express Configurations ‡ ?	x4, x8, x16
Max # of PCI Express Lanes ?	40

Package Specifications

Sockets Supported ?	FCLGA2011-3
Max CPU Configuration	2
T_{CASE} ?	87.025°C
Package Size	52.5mm x 45mm
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® VT-x with Extended Page Tables (EPT) ‡ ?	Yes
Intel® TSX-NI ?	No
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 ‡ ?	No

Security & Reliability

Intel® AES New Instructions ?	Yes
Secure Key ?	Yes
Intel® OS Guard	Yes
Intel® Trusted Execution Technology ‡ ?	Yes
Execute Disable Bit ‡ ?	Yes

More support options for Intel® Xeon® Processor E5-2648L v3 (30M Cache, 1.80 GHz)

🛠 Product Support	ⓘ Downloads and Software	👥 Support Community	🖥 Warranty and Replacement

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