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## Intel® Xeon® Processor E5-2658 v2 (25M Cache, 2.40 GHz)

Specifications

PCI Express Revision

PCI Express Configurations #

Max # of PCI Express Lanes

Advanced Technologies

Specifications Essentials Performance Memory Specifications **Expansion Options** Package Specifications Advanced Technologies Intel® Data Protection Technology Intel® Platform Protection Technology

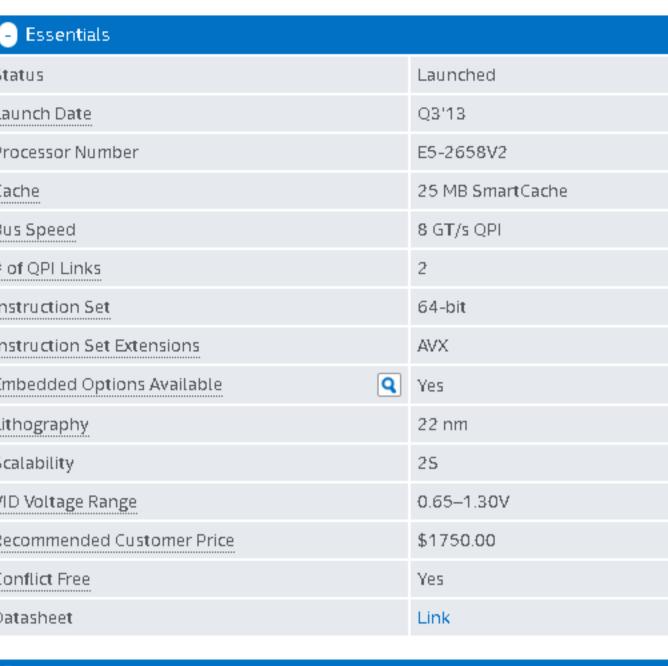
Compatible Products

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Steppings

- Essentials Launched Status O3'13 Launch Date Processor Number E5-2658V2 25 MB SmartCache Cache Bus Speed 8 GT/s QPI 2 # of QPI Links 64-bit Instruction Set AVX. Instruction Set Extensions Embedded Options Available Q Yes Lithography 22 nm 25 Scalability VID Voltage Range 0.65-1.30V \$1750.00 Recommended Customer Price Conflict Free Yes Link Datasheet





768 GB
DDR3 800/1066 /1333/1600/1866
4
59.7 GB/s
46-bit
Yes

3.0

40

x4, x8, x16

Package Specifications	
Max CPU Configuration	2
TCASE	87°C
Package Size	52.5mm x 45mm
Sockets Supported	FCLGA2011
Low Halogen Options Available	See MDDS

Havanced recimotogies		
Intel® Turbo Boost Technology ‡		2.0
Intel® vPro Technology ‡	Q	Yes
Intel® Hyper-Threading Technology ‡	Q	Yes
Intel® Virtualization Technology (VT-x) ‡		Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	Q	Yes
Intel® VT-x with Extended Page Tables (EPT) #	Q	Yes
Intel® TSX-NI		No
Intel® 64 ‡	Q	Yes
Idle States		Yes
Enhanced Intel SpeedStep® Technology	Q	Yes
Intel® Demand Based Switching	Q	Yes
Thermal Monitoring Technologies		Yes
Intel® Flex Memory Access		No
Intel® Identity Protection Technology‡		No
Intel® Data Protection Technology		
- Intel Data Frotection reclinology		
Intel® AES New Instructions	Q	Yes

	Yes
	Yes
Q	Yes
	Yes
	Q

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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, BIO5, drivers, virtual machine monitor-VMM, platform software, and for operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

\*Conflict free" and \*conflict-free" means \*DRC conflict free", which is defined by the U.5. Securities and Exchange Commission rules to mean products that do not contain conflict minerals [tin, tantalum, tungsten] and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to

suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free. The conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers. See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading-threading-technology/hyper-threading-thread

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.

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 US-709

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 BIO5.

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

Send us your feedback!

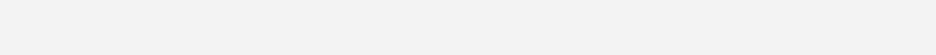




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