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## Intel® Xeon® Processor E7-4850 v3 (35M Cache, 2.20 GHz)

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

Steppings

Specifications Essentials Launched Status Q2'15 Launch Date Processor Number E7-4850V3 35 MB Last Level Cache Intel® QPI Speed 8 GT/s 3 # of QPI Links Instruction Set 64-bit

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PCN/MDDS Information SR221 937875: PCN | MDDS

Instruction Set Extensions		AVX 2.0
Embedded Options Available	Q	No
Lithography		22 nm
Scalability		S4S
Recommended Customer Price		
- Performance		
# of Cores		14
# of Threads		28
Processor Base Frequency		2.2 GHz
Max Turbo Frequency		2.8 GHz
TDP		115 W
Memory Specifications		
Max Memory Size (dependent on memory type)		1536 GB
Memory Types		DDR4-1333/1600/1866 DDR3- 1066/1333/1600
Max # of Memory Channels		4
Max Memory Bandwidth		102 GB/s
Physical Address Extensions		46-bit
ECC Memory Supported ‡	Q	Yes
• Craphics Englishing		
- Graphics Specifications		None
Processor Graphics ‡		Notie
- Expansion Options		
PCI Express Revision		3.0
PCI Express Configurations ‡		x4, x8, x16
Max # of PCI Express Lanes		32
Package Specifications		
Max CPU Configuration		4
T <sub>CASE</sub>		70°C
Package Size		52mm x 45mm
Sockets Supported		FCLGA2011
Low Halogen Options Available		See MDDS
LOW Hatogett Options Available		50011005
Advanced Technologies		
Intel® Turbo Boost Technology ‡		2.0
Intel® Hyper-Threading Technology ‡	Q	Yes

Intel® Hyper-Threading Technology + Yes Yes Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/O (VT-Q Q Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® TSX-NI Q Yes Intel® 64 ‡ Idle States Q Enhanced Intel SpeedStep® Technology Yes Thermal Monitoring Technologies Intel® Instruction Replay Technology No Intel® Data Protection Technology Q Yes Intel® AES New Instructions Secure Key

 Intel® Platform Protection Technology OS Guard Yes Trusted Execution Technology ‡ Yes Execute Disable Bit ‡

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correct classification of any item at the time of export. 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, i7-2675QM, 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.

"Conflict free" and "conflict-free" means "DRC conflict free", which is defined by the U.S. 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 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-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.

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