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Specifications Essentials Launched Status Launch Date Q1'12 Processor Number E5-2648L Intel® Smart Cache 20 MB Intel® QPI Speed 8 GT/s 2 # of QPI Links 64-bit Instruction Set Instruction Set Extensions YES Embedded Options Available Q Yes Lithography 32 nm Recommended Customer Price TRAY: \$1346.00 Link Datasheet Performance

of Cores 8 # of Threads 16 1.8 GHz Processor Base Frequency 2.1 GHz Max Turbo Frequency TDP 70 W

 Memory Specifications Max Memory Size (dependent on memory type) 384 GB DDR3 800/1066/1333/1600 Memory Types Max # of Memory Channels Q Yes ECC Memory Supported * Expansion Options PCI Express Revision 3.0 PCI Express Configurations # Gen 3.0 40 Max # of PCI Express Lanes Package Specifications Max CPU Configuration 2

Sockets Supported FCLGA2011 Low Halogen Options Available See MDDS Advanced Technologies Intel® Turbo Boost Technology * 2.0 Q No Intel® vPro Technology * Intel® Hyper-Threading Technology * Q Yes Intel® Virtualization Technology (VT-x) * Intel® Virtualization Technology for Directed I/O Q (VT-d) * Q Intel® VT-x with Extended Page Tables (EPT) * Q Intel® 64 * Yes Enhanced Intel SpeedStep® Technology Q Yes Intel® Flex Memory Access No Intel® Identity Protection Technology * No Intel® Data Protection Technology Q Yes AES New Instructions intel® Platform Protection Technology Trusted Execution Technology * Q Yes

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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.

Execute Disable Bit #

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.

"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. 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-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 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. 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 guotation.

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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