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 Performance 4 # of Cores # of Threads Processor Base Frequency 3 GHz Max Turbo Frequency 3.3 GHz TDP 95 W Memory Specifications Max Memory Size (dependent on memory type) 32 GB Memory Types DDR3 1066/1333 Max # of Memory Channels Max Memory Bandwidth 21 GB/s Q No ECC Memory Supported \* Graphics Specifications Intel® HD Graphics 2000 Processor Graphics \* 850 MHz Graphics Base Frequency Graphics Max Dynamic Frequency 1.1 GHz Q Intel® Quick Sync Video Yes Intel® InTru™ 3D Technology Yes Intel® Insider™ Q No Intel® Wireless Display Intel® Flexible Display Interface (Intel® FDI) Intel® Clear Video HD Technology # of Displays Supported \* 2 Expansion Options 2.0 PCI Express Revision Max # of PCI Express Lanes 16 Package Specifications Max CPU Configuration 1 TCASE 72.6°C Package Size 37.5mm x 37.5mm Sockets Supported LGA1155 Low Halogen Options Available See MDDS Advanced Technologies Intel® Turbo Boost Technology \* 2.0 Q No Intel® vPro Technology \* Intel® Hyper-Threading Technology \* Q No Intel® Virtualization Technology (VT-x) \* Intel® Virtualization Technology for Directed I/O Q (VT-d) # Intel® VT-x with Extended Page Tables (EPT) \* Q Intel® 64 \* Idle States Q Enhanced Intel SpeedStep® Technology Thermal Monitoring Technologies Intel® Fast Memory Access Intel® Flex Memory Access Intel® Identity Protection Technology \* Intel® Data Protection Technology Q AES New Instructions

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"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.

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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 conflict free. 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.

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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