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Intel® Core™ i3-2312M Processor (3M Cache, 2.10 GHz)

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

Ordering / sSpecs / Steppings

Protection Technology

Specifications Essentials Status Launched Q2'11 Launch Date Processor Number i3-2312M Intel® Smart Cache 3 МВ DMI 5 GT/s 64-bit Instruction Set AVX. Instruction Set Extensions Q No Embedded Options Available Lithography 32 nm Recommended Customer Price N/A Datasheet Link Performance

of Cores 2 # of Threads 4 Processor Base Frequency 2.1 GHz 35 W TDP

 Memory Specifications Max Memory Size (dependent on memory type) 16 GB DDR3 1066/1333 Memory Types Max # of Memory Channels 2 21.3 GB/s Max Memory Bandwidth Q No ECC Memory Supported * Graphics Specifications

Processor Graphics * Intel® HD Graphics 3000 Graphics Base Frequency 650 MHz 1.1 GHz Graphics Max Dynamic Frequency eDP/DP/HDMI/SDVO/CRT Graphics Output Q Intel® Quick Sync Video Yes Intel® InTru™ 3D Technology Intel® Insider™ Q Yes Intel® Wireless Display Intel® Flexible Display Interface (Intel® FDI) Intel® Clear Video HD Technology Macrovision* License Required No # of Displays Supported * 2

2.0 PCI Express Revision PCI Express Configurations * 1x16, 2x8, 1x8+2x4 Max # of PCI Express Lanes 16 Package Specifications 85 C TJUNCTION

Expansion Options

Package Size 37.5mm x 37.5mm *rPGA988B); Graphics and IMC Lithography 32 nm Sockets Supported PPGA988 Low Halogen Options Available See MDDS Advanced Technologies Intel® Turbo Boost Technology * No

Intel® vPro Technology * Q No Q Intel® Hyper-Threading Technology * 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 Intel® My WiFi Technology 4G WiMAX Wireless Technology Idle States Q Enhanced Intel SpeedStep® Technology Yes Q No Intel® Demand Based Switching Thermal Monitoring Technologies Intel® Fast Memory Access Intel® Flex Memory Access Intel® Identity Protection Technology * Intel® Data Protection Technology

Q No AES New Instructions Intel® Platform Protection Technology Q No Trusted Execution Technology * Execute Disable Bit * Anti-Theft Technology

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"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

appropriate Intel representative to obtain a formal price quotation.

For benchmarking data see http://www.intel.com/performance.

/www/us/en/processors/processor-numbers.html for details.

Refer to Datasheet for formal definitions of product properties and features.

classification of any item at the time of export.

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,

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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

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.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

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