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Intel® Core™ i7-3920XM Processor Extreme Edition (8M Cache, up to 3.80 GHz)

Specifications Specifications Essentials Essentials Performance Status Launched Memory Specifications Launch Date Q2'12 Graphics Specifications Processor Number i7-3920XM **Expansion Options** Package Specifications Intel® Smart Cache 8 MB Advanced Technologies 5 GT/s DMI Intel® Data Protection 64-bit Instruction Set Technology Instruction Set Extensions AVX. Intel® Platform Protection Technology Q No Embedded Options Available Lithography 22 nm Compatible Products

Recommended Customer Price

Conflict Free

Performance

Processor Base Frequency

Max # of PCI Express Lanes

Package Specifications

Max Turbo Frequency

Datasheet

of Cores

TDP

of Threads

Related Products 3rd Generation Intel® Core™ i7 Extreme Processor Intel® Core™ i7-3900 Mobile Processor Extreme **Edition Series** Products formerly Ivy Bridge

TRAY: \$1096.00

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4

8

2.9 GHz

3.8 GHz

55 W

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Support Overview >

SROT2 921341: PCN | MDDS SROMH 919641: MDDS

 Memory Specifications Max Memory Size (dependent on memory type) 32 GB DDR3/L/-RS 1333/1600 Memory Types Max # of Memory Channels Max Memory Bandwidth 25.6 GB/s Q No ECC Memory Supported * Graphics Specifications Processor Graphics * Intel® HD Graphics 4000 Graphics Base Frequency 650 MHz Graphics Max Dynamic Frequency 1.3 GHz eDP/DP/HDMI/SDVO/CRT Graphics Output Q Yes Intel® Quick Sync Video Intel® InTru™ 3D Technology Intel® Insider™ Q Intel® Wireless Display Yes Intel® Flexible Display Interface (Intel® FDI) Intel® Clear Video HD Technology # of Displays Supported * 3 Expansion Options PCI Express Revision 3.0 PCI Express Configurations * 1x16, 2x8, 1x8 2x4

Max CPU Configuration 1 105 C TJUNCTION Package Size 37.5 x 37.5mm (rPGA988B) Graphics and IMC Lithography 22 nm FCPGA988 Sockets Supported Low Halogen Options Available See MDDS Advanced Technologies Intel® Turbo Boost Technology * 2.0 Q Intel® vPro Technology * Yes Intel® Hyper-Threading Technology * Q Yes

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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 # 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 Yes AES New Instructions

 Intel® Platform Protection Technology Trusted Execution Technology * Q Yes Execute Disable Bit * Anti-Theft Technology All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

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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

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

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.

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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.

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