

Intel® Core™ i5-2430M Processor (3M Cache, 2.40 GHz)

Essentials

Status	Launched
Launch Date	Q4'11
Processor Number	i5-2430M
# of Cores	2
# of Threads	4
Clock Speed	2.4 GHz
Max Turbo Frequency	3 GHz
Intel® Smart Cache	3 MB
Bus/Core Ratio	24
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	AVX
Embedded Options Available	No
Lithography	32 nm
Max TDP	35 W
Recommended Customer Price	\$225

Memory Specifications

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

Graphics Specifications

Processor Graphics	Intel® HD Graphics 3000
Graphics Base Frequency	650 MHz

Graphics Max Dynamic Frequency	1.2 GHz
Graphics Output	eDP/DP/HDMI/SDVO/CRT
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Insider™	Yes
Intel® Wireless Display	Yes
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	Yes
Dual Display Capable	Yes
Macrovision* License Required	No

Expansion Options

PCI Express Revision	2.0
PCI Express Configurations	1x16, 2x8, 1x8+2x4
# of PCI Express Ports	1

Package Specifications

Max CPU Configuration	1
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Package Size	37.5mmx37.5mm (rPGA988B); 31mm x 24mm (BGA1023)
Graphics and IMC Lithography	32 nm
Sockets Supported	PPGA988
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Turbo Boost Technology	2.0
Intel® vPro Technology	No
Intel® Hyper-Threading Technology	Yes

Intel® Virtualization Technology (VT-x)	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)	No
Intel® Trusted Execution Technology	No
AES New Instructions	Yes
Intel® 64	Yes
Intel® Anti-Theft Technology	Yes
Intel® My WiFi Technology	Yes
4G WiMAX Wireless Technology	Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	No
Thermal Monitoring Technologies	Yes
Intel® Fast Memory Access	Yes
Intel® Flex Memory Access	Yes
Execute Disable Bit	Yes