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Intel® Core™ i3-3217UE Processor (3M Cache, 1.60 GHz)

SPECIFICATIONS

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SPECIFICATIONS

Essentials

Status	Launched
Launch Date	Q3'12
Processor Number	i3-3217UE
# of Cores	2
# of Threads	4
Clock Speed	1.6 GHz
Intel® Smart Cache	3 MB
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	AVX
Embedded Options Available	
Lithography	22 nm
Max TDP	17 W

Memory Specifications

Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3/DDR3L - 1333/1600
# of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported	

Graphics Specifications

Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	900 MHz
Graphics Output	eDP/DP/HDMI/SDVO/CRT
Intel® Quick Sync Video	
Intel® InTru™ 3D Technology	Yes
Intel® Insider™	No
Intel® Wireless Display	No
Intel® Flexible Display Interface (Intel® FDI)	
Intel® Clear Video HD Technology	Yes
Intel® Clear Video Technology for MID	No
# of Displays Supported	3

Expansion Options	
PCI Express Revision	2.0
PCI Express Configurations	1x16 2x8 1x8 2x4
# of PCI Express Lanes	1

Package Specifications

Max CPU Configuration	1
T JUNCTION	105 °C
Package Size	31 mm x 24 mm
Graphics and IMC Lithography	22 nm
Sockets Supported	FCBGA 1023
Low Halogen Options Available	See MDDS

Advanced Technologies

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

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PCN/MDDS Information

SR0WN
923002: PCN | MDDS

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

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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.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which processors support HT Technology.

64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Max Turbo Frequency refers to the maximum single-core frequency that can be achieved with Intel® Turbo Boost Technology, which requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

Intel® Identity Protection Technology (Intel® IPT) requires a combination of processor, PCH (Platform Controller Hub) and software. Check http://ipt.intel.com/Home.aspx for systems that support Intel IPT.

Graphics output, multiple displays, ECC memory, specific PCI Express configurations, Intel® vPro™ Technology, Intel® Trusted Execution Technology, and Intel® Virtualization Technology for Directed I/O (VT-d) may not be available on all computing systems. Please reference the system, motherboard or chipset specifications for compatibility.

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in development.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

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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.

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.

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