



Intel® Core™ i3-2120 Processor (3M Cache, 3.30 GHz)

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SPECIFICATIONS

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Advanced Technologies

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SPECIFICATIONS

Essentials

Status	Launched
Launch Date	Q1'11
Processor Number	i3-2120
# of Cores	2
# of Threads	4
Clock Speed	3.3 GHz
Intel® Smart Cache	3 MB
Bus/Core Ratio	33
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1/4.2, AVX
Embedded Options Available	 Yes
Lithography	32 nm
Max TDP	65 W
Recommended Channel Price	\$138.00

Memory Specifications

Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1066/1333
# of Memory Channels	2
Max Memory Bandwidth	21 GB/s

Graphics Specifications

Processor Graphics	 Intel® HD Graphics 2000
Graphics Base Frequency	850 MHz
Graphics Max Dynamic Frequency	1.1 GHz
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology,	Yes
Intel® Insider™	Yes
Intel® Wireless Display	No
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	Yes
Dual Display Capable	Yes

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PCN/MDDS INFORMATION

Expansion Options	
PCI Express Revision	2.0
Package Specifications	
Max CPU Configuration	1
TCASE	69.1°C
Package Size	37.5mm x 37.5mm
Sockets Supported	FCLGA1155
Halogen Free Options Available	Yes

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

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.

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.

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 www.intel.com/products/ht/hyperthreading_more.htm for more information including details on which processors support HT Technology.

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.

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Halogen Free implies the following:

Bromine and/or chlorine in materials that may be used during processing, but do not remain within the final product are not included in this definition. The halogens fluorine (F), iodine (I), and astatine (At) are not restricted by this standard.

"BFR/CFR and PVC-Free" Definition: :
All PCB laminates must meet Br and Cl requirements for low halogen as defined in IPC-4101B. For components other than PCB laminates, all homogeneous materials must contain < 900 ppm (0.09%) of Bromine [if the Bromine (Br) source is from BFRs] and < 900 ppm (0.09%) of Chlorine [if the Chlorine (Cl) source is from CFRs or PVC. Higher concentrations of Br and Cl are allowed in homogenous materials of components other than PCB laminates as long as their sources are not BFRs, CFRs, PVC.
Although the elemental analysis for Br and Cl in homogeneous materials can be performed by any analytical method with sufficient sensitivity and selectivity, the presence or absence of BFRs, CFRs or PVC must be verified by any acceptable analytical techniques that allow for the unequivocal identification of the specific Br or Cl compounds, or by appropriate material declarations agreed to between customer and supplier.

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.

Advanced Technologies

Intel® Turbo Boost Technology	No
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	 No
Intel® 64	 Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	 Yes
Thermal Monitoring Technologies	Yes
Intel® Fast Memory Access	Yes
Intel® Flex Memory Access	Yes
Execute Disable Bit	Yes



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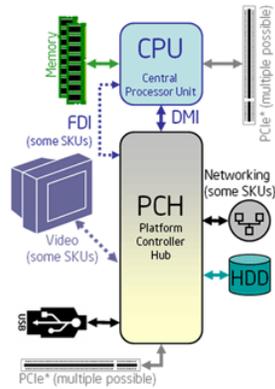
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Ordering and Spec Information

Boxed Intel® Core™ i3-2120 Processor (3M Cache, 3.30 GHz) FC-LGA10D, for China

Socket	Step	Step TDP	Ordering Code	Spec Code	Halogen Free	VT-x
FCLGA1155		65 Watts	BXC80623I32120	SR05Y	Yes	Yes

Boxed Intel® Core™ i3-2120 Processor (3M Cache, 3.30 GHz) FC-LGA10D

Socket	Step	Step TDP	Ordering Code	Spec Code	Halogen Free	VT-x
FCLGA1155		65 Watts	BX80623I32120	SR05Y	Yes	Yes

Intel® Core™ i3-2120 Processor (3M Cache, 3.30 GHz) FC-LGA10D, Tray

Socket	Step	Step TDP	Ordering Code	Spec Code	Halogen Free	VT-x
FCLGA1155		65 Watts	CM8062301044204	SR05Y	Yes	Yes

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