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Home ▸   Intel® Processors ▸   3rd Generation Intel® Core™ i3 Processors ▸   Intel® Core™ i3-3100 Mobile Processor Series ▸   i3-3120 ME

Intel® Core™ i3-3120ME Processor (3M Cache, 2.40 GHz)

SPECIFICATIONS

- **Essentials**
- Memory Specifications
- Graphics Specifications
- Expansion Options
- Package Specifications
- Advanced Technologies

COMPATIBLE PRODUCTS

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SPECIFICATIONS

Essentials	
Status	Launched
Launch Date	Q3'12
Processor Number	i3-3120ME
# of Cores	2
# of Threads	4
Clock Speed	2.4 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	35 W
Description	ECC support on BGA package only

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	
Processor Graphics	Intel® HD Graphics 4000
Graphics Base Frequency	650 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

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Graphics Base Frequency	650 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
# of Displays Supported	3

Expansion Options

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

Package Specifications

Max CPU Configuration	1
T JUNCTION	105°C
Package Size	37.5mm x 37.5mm (rPGA988B); 31mm x 24mm (BGA1023)
Graphics and IMC Lithography	22 nm
Sockets Supported	FCBGA1023, FCPGA988
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	No
4G WiMAX Wireless Technology	No
Idle States	
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	No

Advanced Technologies		
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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		No
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® Virtualization Technology for Itanium (VT-i)		No
Intel® VT-x with Extended Page Tables (EPT)		

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PCN/MDDS Information

SR0WL
923000 : PCN | MDDS
SR0WM
923001 : 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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