









Intel[®] Core[™] m3-8100Y Processor

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4M Cache, up to 3.40 GHz

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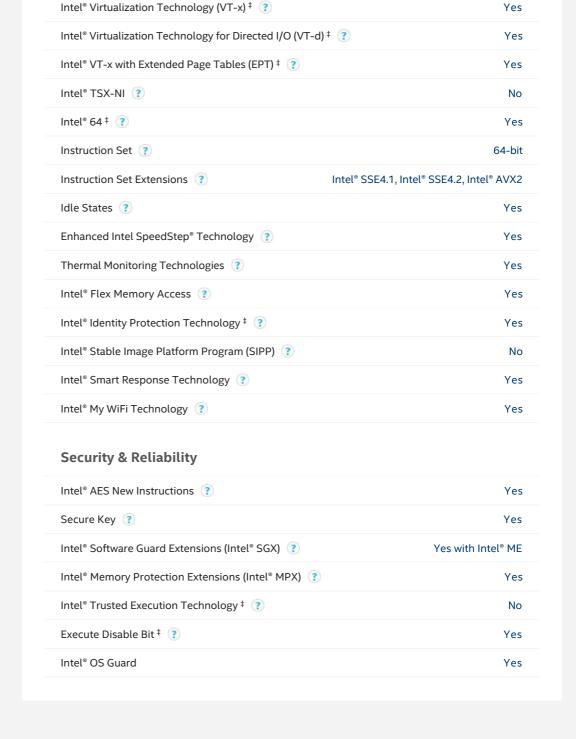
Ordering and Compliance

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Essentials	Export specificati
Product Collection	8th Generation Intel® Core™ m Processors
Code Name	Products formerly Amber Lake Y
Vertical Segment	Mobile
Processor Number	m3-8100\
Off Roadmap	No
Status	Launched
Launch Date ?	Q3'18
Lithography ?	14 nm
Recommended Customer Price ?	
Performance	
# of Cores ?	2
# of Threads ?	4
Processor Base Frequency ?	1.10 GHz
Max Turbo Frequency ?	3.40 GHz
Cache ?	4 MB Intel® Smart Cache
Bus Speed ?	4 GT/s
TDP ?	5 W
Configurable TDP-up Frequency ?	1.60 GHz
Configurable TDP-up 🔞	8 W
Configurable TDP-down Frequency ?	600 MHz
Configurable TDP-down ?	4.5 W
Supplemental Information	
Embedded Options Available ?	No
Datasheet	View now
Memory Specifications	



Memory Types ?	LPDDR3-1866, DDR3L-160
Max # of Memory Channels ?	
Max Memory Bandwidth 💽	33.3 GB
ECC Memory Supported ‡ ?	N
Processor Graphics	
Processor Graphics ‡ ?	Intel® UHD Graphics 61
Graphics Base Frequency ?	300 MH
Graphics Max Dynamic Frequency ?	900 MH
Graphics Video Max Memory 🔞	16 0
Graphics Output ?	eDP/DP/HDMI/D
4K Support ?	Yes, at 60H
Max Resolution (HDMI 1.4)‡ 🕐	4096x2304@24H
Max Resolution (DP)‡ 👔	3840x2160@60H
Max Resolution (eDP - Integrated Flat Panel)‡ 👔	3840x2160@60H
DirectX* Support ?	•
OpenGL* Support ?	4
Intel® Quick Sync Video 🔞	Y
Intel® Clear Video HD Technology ?	Y
Intel® Clear Video Technology 🕐	Ye
# of Displays Supported ‡	
Device ID	0x591
Expansion Options	
PCI Express Revision ?	3
PCI Express Configurations ‡ ?	1x4, 2x2, 1x2+2x1 and 4
Max # of PCI Express Lanes ?	•
Package Specifications	
Sockets Supported ?	FCBGA15
Max CPU Configuration	
T _{JUNCTION} ?	100
Package Size	20mm X 16.5m
Advanced Technologies	
Intel® Speed Shift Technology ?	Ye
Intel® Speed Shift Technology Intel® Turbo Boost Technology ?	Y 6



More support options for Intel® Core™ m3-8100Y Processor (4M Cache, up to 3.40 GHz)





Downloads and Software



Support Community



Warranty and Replacement



Need more help?

Contact support



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

‡ 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.

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.

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

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

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.

Intel® Smart Response Technology requires a select Intel® Core™ processor, an enabled chipset, Intel® Rapid Storage Technology software, and a properly configured hybrid drive (HDD + small SSD). Depending on system configuration, your results may vary. Contact your system manufacturer for more information.

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.

Check http://ipt.intel.com/ for systems that support Intel® Identity Protection Technology (Intel® IPT).

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

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 Intel® HT Technology.



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