



Intel® Xeon® Processor E3-1505M v6

8M Cache, 3.00 GHz

Add to Compare

Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

Processor Graphics

Expansion Options

Package Specifications

Advanced Technologies

Security & Reliability

Ordering and Compliance

Product Images

Downloads and Software

Essentials

[Export specifications](#)

Product Collection	Intel® Xeon® Processor E3 v6 Family
Code Name	Products formerly Kaby Lake
Vertical Segment	Mobile
Processor Number	E3-1505MV6
Status	Launched
Launch Date ?	Q1'17
Lithography ?	14 nm
Recommended Customer Price ?	
Use Conditions ?	Industrial Commercial Temp

Performance

# of Cores ?	4
# of Threads ?	8
Processor Base Frequency ?	3.00 GHz
Max Turbo Frequency ?	4.00 GHz
Cache ?	8 MB
Bus Speed ?	8 GT/s DMI
TDP ?	45 W
Configurable TDP-down ?	35 W

Supplemental Information

Embedded Options Available ?	Yes
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	64 GB
Memory Types ?	DDR4-2400, LPDDR3-2133, DDR3L-1600
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	37.5 GB/s
ECC Memory Supported † ?	Yes

Processor Graphics

Processor Graphics † ?	Intel® HD Graphics P630
Graphics Base Frequency ?	350 MHz
Graphics Max Dynamic Frequency ?	1.10 GHz
Graphics Video Max Memory ?	1.7 GB
Graphics Output ?	eDP/DP/HDMI/DVI
4K Support ?	Yes, at 60Hz
Max Resolution (HDMI 1.4)‡ ?	4096x2304@30Hz
Max Resolution (DP)‡ ?	4096x2304@60Hz
Max Resolution (eDP - Integrated Flat Panel)‡ ?	4096x2304@60Hz
Max Resolution (VGA)‡ ?	N/A
DirectX* Support ?	12
OpenGL* Support ?	4.4
Intel® Quick Sync Video ?	Yes
Intel® InTru™ 3D Technology ?	Yes
Intel® Clear Video HD Technology ?	Yes
Intel® Clear Video Technology ?	Yes
# of Displays Supported ‡	3
Device ID	0x591D

Expansion Options

PCI Express Revision ?	3.0
PCI Express Configurations † ?	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes ?	16









Package Specifications

Sockets Supported ?	FCBGA1440
Max CPU Configuration	1
T _{JUNCTION} ?	100°C
Package Size	42mm x 28mm







Advanced Technologies

Intel® Speed Shift Technology ?	Yes
Intel® Turbo Boost Technology † ?	2.0
Intel® vPro™ Platform Eligibility † ?	Yes
Intel® Hyper-Threading Technology † ?	Yes
Intel® Virtualization Technology (VT-x) † ?	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) † ?	Yes
Intel® VT-x with Extended Page Tables (EPT) † ?	Yes
Intel® TSX-NI ?	Yes
Intel® 64 † ?	Yes
Instruction Set ?	64-bit

Instruction Set Extensions  Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2

Idle States 	Yes
Enhanced Intel SpeedStep® Technology 	Yes
Thermal Monitoring Technologies 	Yes
Intel® Flex Memory Access 	Yes
Intel® Identity Protection Technology ‡ 	Yes
Intel® Stable Image Platform Program (SIPP) 	Yes
Intel® Smart Response Technology 	Yes
Intel® My WiFi Technology 	Yes

Security & Reliability

Intel® AES New Instructions 	Yes
Secure Key 	Yes
Intel® Software Guard Extensions (Intel® SGX) 	Yes
Intel® Memory Protection Extensions (Intel® MPX) 	Yes
Intel® Trusted Execution Technology ‡ 	Yes
Execute Disable Bit ‡ 	Yes
Intel® OS Guard	Yes

More support options for Intel® Xeon® Processor E3-1505M v6 (8M Cache, 3.00 GHz)



Product Support



Downloads and Software



Support Community



Warranty and Replacement



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

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

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.

‡ 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

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.

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.

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

For benchmarking data see <http://www.intel.com/performance>.

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.

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



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