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Intel® Xeon® E-2254ML Processor

8M Cache, 1.70 GHz

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Product Collection	Intel® Xeon® E Processor
Code Name	Products formerly Coffee Lake
Vertical Segment	Embedded
Processor Number ?	E-2254ML
Status	Launched
Launch Date ?	Q2'19
Lithography ?	14 nm
Use Conditions ?	Embedded Broad Market Commercial Temp
Recommended Customer Price ?	

CPU Specifications

# of Cores ?	4
# of Threads ?	8
Processor Base Frequency ?	1.70 GHz
Max Turbo Frequency ?	3.50 GHz
Cache ?	8 MB
Bus Speed ?	8 GT/s
Intel® Turbo Boost Technology 2.0 Frequency‡ ?	3.50 GHz
TDP ?	25 W

Supplemental Information

Embedded Options Available ?	Yes

Memory Specifications

Max Memory Size (dependent on memory type) ?	64 GB
Memory Types ?	DDR4-2666
Max # of Memory Channels ?	2
ECC Memory Supported ‡ ?	Yes

Processor Graphics

Processor Graphics ‡ ?	Intel® UHD Graphics P630
Graphics Base Frequency ?	350 MHz
Graphics Max Dynamic Frequency ?	1.10 GHz
Graphics Video Max Memory ?	64 GB
Graphics Output ?	eDP/DP/HDMI/DVI
4K Support ?	Yes, at 60Hz
Max Resolution (HDMI)‡ ?	4096x2160@30Hz
Max Resolution (DP)‡ ?	4096x2304@30Hz
Max Resolution (eDP – Integrated Flat Panel)‡ ?	4096x2304@30Hz
Max Resolution (VGA)‡ ?	N/A
DirectX* Support ?	12
OpenGL* Support ?	4.5
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	0x3E94

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
Package Size	42mm x 28mm

Advanced Technologies

Intel® Optane™ Memory Supported ‡ ?	Yes

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® Transactional Synchronization Extensions ?	Yes
Intel® 64 ‡ ?	Yes
Instruction Set ?	64-bit
Instruction Set Extensions ?	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
Intel® My WiFi Technology ?	Yes
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

Security & Reliability

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

More support options for Intel® Xeon® E-2254ML Processor (8M Cache, 1.70 GHz)

Product Support

Downloads and Software

Support Community

Warranty and Replacement

Need more help?

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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 yet available. Please refer to the Launch Date for market availability.

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.

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.

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).

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