



Intel® Core™ i7-8650U Processor

8M Cache, up to 4.20 GHz

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Essentials

Export specifications

Product Collection	8th Generation Intel® Core™ i7 Processors
Code Name	Products formerly Kaby Lake R
Vertical Segment	Mobile
Processor Number	i7-8650U
Status	Launched
Launch Date ?	Q3'17
Lithography ?	14 nm
Recommended Customer Price ?	

Performance

# of Cores ?	4
# of Threads ?	8
Processor Base Frequency ?	1.90 GHz
Max Turbo Frequency ?	4.20 GHz
Cache ?	8 MB SmartCache
Bus Speed ?	4 GT/s OPI
TDP ?	15 W
Configurable TDP-up Frequency ?	2.10 GHz
Configurable TDP-up ?	25 W
Configurable TDP-down Frequency ?	800 MHz
Configurable TDP-down ?	10 W

Supplemental Information

Embedded Options Available ?	No
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	32 GB
Memory Types ?	DDR4-2400, LPDDR3-2133
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	34.1 GB/s
⌚CC Memory Supported ‡ ?	No

Processor Graphics

Processor Graphics ‡ ?	Intel® UHD Graphics 620
Graphics Base Frequency ?	300 MHz
Graphics Max Dynamic Frequency ?	1.15 GHz
Graphics Video Max Memory ?	32 GB
Graphics Output ?	eDP/DP/HDMI/DVI
4K Support ?	Yes, at 60Hz
Max Resolution (HDMI 1.4)‡ ?	4096x2304@24Hz
Max Resolution (DP)‡ ?	4096x2304@60Hz
Max Resolution (eDP - Integrated Flat Panel)‡ ?	4096x2304@60Hz
DirectX* Support ?	12
OpenGL* Support ?	4.4
Intel® Quick Sync Video ?	Yes
Intel® Clear Video HD Technology ?	Yes
Intel® Clear Video Technology ?	Yes
# of Displays Supported ‡	3
Device ID	0x5917

Optimize popular games to play on Intel Graphics



Expansion Options

PCI Express Revision ?	3.0
PCI Express Configurations ‡ ?	1x4, 2x2, 1x2+2x1 and 4x1
Max # of PCI Express Lanes ?	12

Package Specifications

Sockets Supported ?	FC-BGA1356
Max CPU Configuration	1
T _{JUNCTION} ?	100°C
Package Size	42mm X 24mm
Low Halogen Options Available	See MDDS

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® TSX-NI ?	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
Intel® Smart Response Technology ?	Yes

Security & Reliability

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

More support options for Intel® Core™ i7-8650U Processor (8M Cache, up to 4.20 GHz)



Product Support



Downloads and Software



Support Community



Warranty and Replacement



Need more help?

Contact support



Give Feedback

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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, i7-2690QM/i7-2695QM, i7-2700QM/i7-2705QM, i7-2720QM/i7-2725QM, i7-2730QM/i7-2735QM, i7-2750QM/i7-2755QM, i7-2760QM/i7-2765QM, i7-2770QM/i7-2775QM, i7-2780QM/i7-2785QM, i7-2790QM/i7-2795QM, i7-2800QM/i7-2805QM, i7-2810QM/i7-2815QM, i7-2820QM/i7-2825QM, i7-2830QM/i7-2835QM, i7-2840QM/i7-2845QM, i7-2850QM/i7-2855QM, i7-2860QM/i7-2865QM, i7-2870QM/i7-2875QM, i7-2880QM/i7-2885QM, i7-2890QM/i7-2895QM, i7-2900QM/i7-2905QM, i7-2910QM/i7-2915QM, i7-2920QM/i7-2925QM, i7-2930QM/i7-2935QM, i7-2940QM/i7-2945QM, i7-2950QM/i7-2955QM, i7-2960QM/i7-2965QM, i7-2970QM/i7-2975QM, i7-2980QM/i7-2985QM, i7-2990QM/i7-2995QM, i7-3000QM/i7-3005QM, i7-3010QM/i7-3015QM, i7-3020QM/i7-3025QM, i7-3030QM/i7-3035QM, i7-3040QM/i7-3045QM, i7-3050QM/i7-3055QM, i7-3060QM/i7-3065QM, i7-3070QM/i7-3075QM, i7-3080QM/i7-3085QM, i7-3090QM/i7-3095QM, i7-3100QM/i7-3105QM, 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‡ 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.

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