



Intel® Core™ i7-8700T Processor

12M Cache, up to 4.00 GHz

Spec Code

SR3WX

Ordering Code

CM8068403358413

Intel® Core™ i7-8700T Processor (12M Cache, up to 4.00 GHz)

Code Name	Coffee Lake
<u>Essentials</u>	
Vertical Segment	Desktop
Processor Number	i7-8700T
Status	Launched
Launch Date	Q2'18
Lithography	14 nm
Recommended Customer Price	\$303.00
<u>Performance</u>	
# of Cores	6
# of Threads	12
Processor Base Frequency	2.40 GHz
Max Turbo Frequency	4.00 GHz
Cache	12 MB SmartCache
Bus Speed	8 GT/s DMI3
TDP	35 W
Configurable TDP-down Frequency	1.90 GHz
Configurable TDP-down	25 W
<u>Supplemental Information</u>	
Embedded Options Available	Yes
Datasheet	Link
<u>Memory Specifications</u>	
Max Memory Size (dependent on memory type)	64 GB
Memory Types	DDR4-2666
Max # of Memory Channels	2
Max Memory Bandwidth	41.6 GB/s
ECC Memory Supported ‡	No
<u>Processor Graphics</u>	

Processor Graphics ^{‡}	Intel® UHD Graphics 630
Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	1.20 GHz
Graphics Video Max Memory	64 GB
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	4.5
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	0x3E92
<u>Expansion Options</u>	
Scalability	1S Only
PCI Express Revision	3
PCI Express Configurations ‡	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes	16
<u>Package Specifications</u>	
Sockets Supported	FCLGA1151
Max CPU Configuration	1
Thermal Solution Specification	PCG 2015A (35W)
T_{JUNCTION}	100°C
Package Size	37.5mm x 37.5mm
Low Halogen Options Available	See MDDS
<u>Advanced Technologies</u>	
Intel® Optane™ Memory Supported ‡	Yes
Intel® Turbo Boost Technology	2
Intel® vPro™ Technology ‡	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® Identity Protection Technology ‡	Yes
Intel® Stable Image Platform Program (SIPP)	Yes
<u>Security & Reliability</u>	
Intel® AES New Instructions	Yes
Secure Key	Yes
Intel® Software Guard Extensions (Intel® SGX)	Yes
Intel® Memory Protection Extensions (Intel® MPX)	Yes
Intel® OS Guard	Yes
Intel® Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes
Intel® Boot Guard	Yes

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