



Intel® Core™ i9-10900TE Processor

20M Cache, up to 4.60 GHz

Spec Code

SRJFC

Ordering Code

CM8070104420306

Intel® Core™ i9-10900TE Processor (20M Cache, up to 4.60 GHz)	
Essentials	
Product Collection	10th Generation Intel® Core™ i9 Processors
Code Name	Products formerly Comet Lake
Vertical Segment	Embedded
Processor Number	i9-10900TE
Status	Launched
Launch Date	Q2'20
Lithography	14 nm
Use Conditions	Embedded Broad Market Commercial Temp
Recommended Customer Price	\$444.00
Performance Specifications	
# of Cores	10
# of Threads	20
Processor Base Frequency	1.80 GHz
Max Turbo Frequency	4.50 GHz
Cache	20 MB Intel® Smart Cache
Bus Speed	8 GT/s
Intel® Turbo Boost Max Technology 3.0 Frequency ‡	4.50 GHz
TDP	35 W
Supplemental Information	
Embedded Options Available	Yes
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type)	128 GB
Memory Types	DDR4-2933
Max # of Memory Channels	2
Max Memory Bandwidth	45.8 GB/s
ECC Memory Supported ‡	No
Processor Graphics	
Processor Graphics ‡	Intel® UHD Graphics 630
Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	1.20 GHz

Graphics Video Max Memory	64 GB
Graphics Output	eDP/DP/HDMI/DVI
4K Support	Yes, at 60Hz
Max Resolution (HDMI 1.4)‡	4096x2160@30Hz
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	0x9BC5
Expansion Options	
Scalability	1S Only
PCI Express Revision	3
PCI Express Configurations ‡	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes	16
Package Specifications	
Sockets Supported	FCLGA1200
Max CPU Configuration	1
Thermal Solution Specification	PCG 2015B
TJUNCTION	100°C
Package Size	37.5mm x 37.5mm
Advanced Technologies	
Intel® Turbo Boost Max Technology 3.0 ‡	Yes
Intel® Turbo Boost Technology ‡	2
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® 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
Security & Reliability	
Intel® AES New Instructions	Yes
Secure Key	Yes
Intel® Software Guard Extensions (Intel® SGX)	Yes with Intel® ME

Intel® OS Guard	Yes
Intel® Trusted Execution Technology [‡]	Yes
Execute Disable Bit [‡]	Yes
Intel® Boot Guard	Yes

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