



HP Intel Core i7-9700 Prozessor 3 GHz 12 MB Smart Cache Box

Marke : HP

Artikel-Code: 7AD11AV

Produktname : Intel Core i7-9700

HP Intel Core i7-9700. Prozessorfamilie: Intel® Core™ i7, Prozessorsockel: LGA 1151 (Socket H4), Prozessor Lithografie: 14 nm. Speicherkanäle: Zweikanalig, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. On-board Grafik Modell: Intel® UHD Graphics 630, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. PCI Express configurations: 1x16, 1x8+2x4, 2x8, Supported instruction sets: AVX 2.0, SSE4.1, SSE4.2, Scalability: 1S. Processor package size: 37.5 x 37.5 mm



Prozessor		Grafik	
Prozessorgeneration	Intel® Core™ i7 der 9. Generation	DEDIZIERTES GRAFIKMODELL *	Nicht verfügbar
Prozessor *	i7-9700	Features	
Grundfrequenz des Prozessors *	3 GHz	Execute Disable Bit	✓
Prozessorfamilie *	Intel® Core™ i7	Idle States	✓
Anzahl der Prozessorkerne *	8	Thermal Monitoring Technologies	✓
Prozessorsockel *	LGA 1151 (Socket H4)	Maximale Anzahl der PCI-Express-Lanes	16
Prozessor Lithografie *	14 nm	PCI Express slots version	3.0
Prozessor-Threads	8	PCI Express configurations	1x16, 1x8+2x4, 2x8
System-Bus	8 GT/s	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor operating modes *	64-Bit	Scalability	1S
Max. Turbo-Taktfrequenz des Prozessor	4,7 GHz	CPU configuration (max)	1
Processor cache	12 MB	Embedded options available	✗
Prozessor Cache Typ	Smart Cache	Spezifikation der thermischen Lösung	PCG 2015C
Thermal Design Power (TDP)	65 W	PCI Express CEM Revision	3.0
Verpackungsart *	Box	Prozessor Besonderheiten	
Durch den Prozessor (max) unterstützte Speicherbandbreite	41,6 GB/s	Intel Hyper-Threading Technology	✗
Prozessor Codename	Coffee Lake	Intel Identity Protection Technology	✓
Speicher		Intel® Turbo-Boost-Technologie	2.0
Maximaler interner Speicher, vom Prozessor unterstützt	128 GB	Intel® Quick Sync Video Technologie	✓
Speichertypen, vom Prozessor unterstützt	DDR4-SDRAM	Intel® InTru™-3D-Technik	✓
Speichertaktraten, vom Prozessor unterstützt	2666 MHz	Intel Clear Video HD Technologie	✓
Speicherkanäle *	Zweikanalig	Intel AES New Instructions	✓
ECC	✗	Enhanced Intel SpeedStep Technologie	✓
Grafik		Intel Trusted Execution Technology	✓
On-board graphics adapter *	✓	Intel® Schutz Speichererweiterungen (Intel® MPX)	✓
Separater Grafikkadpter *	✗	Intel VT-x with Extended Page Tables (EPT)	✓
On-board Grafik Modell *	Intel® UHD Graphics 630	Intel® Sicherer Schlüssel	✓
Maximaler integrierter Grafik-Adapterspeicher	64 GB	Intel® TSX-NI	✓
On-Board Grafikkadpter Basisfrequenz	350 MHz	Intel Stable Image Platform Program (SIPP)	✓
Maximale dynamische Frequenz der On-Board Grafikkadpter	1200 MHz	Intel® OS Guard	✓
Anzahl an unterstützen Displays (On-Board-Grafik)	3	Intel® Clear Video Technologie	✓

Grafik		Prozessor Besonderheiten	
4K-Unterstützung durch On-Board Grafikadapter	✓	Intel® Software Guard Extensions (Intel® SGX)	✓
On-Board Grafikadapter DirectX Version	12.0	Intel® 64	✓
On-Board Grafikadapter OpenGL Version	4.5	Intel® Virtualization Technologie (VT-X)	✓
Maximale Auflösung des On-Board Grafikadapters (DisplayPort)	4096 x 2304 Pixel	Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
Maximale Auflösung des On-Board Grafikadapters (eDP - integrierter Flachbildschirm)	4096 x 2304 Pixel	Intel® Optane™ Memory-bereit	✓
Integrierter Grafik-Adapter maximale Auflösung (HDMI)	4096 x 2304 Pixel	Intel® Boot Guard	✓
Bildwiederholfrequenz des On-Board Grafikadapters bei maximaler Auflösung (DisplayPort)	60 Hz	Intel® vPro™ Plattform Eligibility	✓
Bildwiederholfrequenz des On-Board Grafikadapters bei maximaler Auflösung (eDP - integrierter Flachbildschirm)	60 Hz	Betriebsbedingungen	
Bildwiederholfrequenz des On-Board Grafikadapters bei maximaler Auflösung (HDMI)	24 Hz	Tjunction	100 °C
On-Board Grafikadapter Geräte-ID	0x3E98	Gewicht u. Abmessungen	
		Prozessor-Paketgröße	37.5 x 37.5 mm

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