

Intel Core i7-12700F processor 25 MB Smart Cache

Merk : Intel

Productfamilie: Core

Artikelcode:
CM8071504555020

Productnaam : i7-12700F



Intel Core i7-12700F. Processorfamilie: Intel® Core™ i7, Processor socket: LGA 1700, Processorfabrikant: Intel. Geheugen kanaal: Dubbelkanaals, Maximaal intern geheugen ondersteund door processor: 128 GB, Geheugentypen ondersteund door processor: DDR4-SDRAM, DDR5-SDRAM. Marktsegment: Desktop, Gebruiksvoorwaarden: PC/Client/Tablet, PCI Express slots versie: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 4,9 GHz. Type verpakking: Retaildoos



Processor		Kenmerken	
Processorfabrikant *	Intel	Ingebouwde opties beschikbaar	✗
Processorgeneratie	Intel® 12de generatie Core™ i7	Directe media-interface (DMI) revisie	4.0
Processormodel *	i7-12700F	Export Control Classification Number (ECCN)	5A992CN3
Processorfamilie *	Intel® Core™ i7	Commodity Classification Automated Tracking System (CCATS)	G167599
Aantal processorkernen *	12	Processor speciale functies	
Processor socket *	LGA 1700	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor aantal threads	20	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Prestatiekernen	8	Enhanced Intel SpeedStep Technology	✓
Efficiënte kernen	4	Intel® Speed Shift-technologie	✓
Maximale turbofrequentie van processor	4,9 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	4,9 GHz
Prestatie-kernboostfrequentie	4,8 GHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Prestatie-kernbasisfrequentie	2,1 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Efficiënte kernboostfrequentie	3,6 GHz	Intel® Thread Director	✓
Efficiënte kernbasisfrequentie	1,6 GHz	Intel® VT-x with Extended Page Tables (EPT)	✓
Processor cache	25 MB	Intel® Secure Key	✓
Processor cache type	Smart Cache	Intel® OS Guard	✓
Box *	✗	Intel® 64	✓
Processor basisvermogen	65 W	Intel® Virtualization Technology (VT-x)	✓
Maximaal turbovermogen	180 W	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	DMI4	Intel® Turbo Boost Max Technology 3.0	✓
Maximum aantal DMI lanes	8	Intel® Optane™ Memory Ready	✓
Geheugenbandbreedte ondersteund door de processor (max)	76,8 GB/s	Intel® Boot Guard	✓
Codenaam processor	Alder Lake	Intel® Deep Learning Boost (Intel® DL Boost)	✓
ARK ID processor	134592	Intel® Volume Management Device (VMD)	✓
Geheugen		Mode-based Execute Control (MBE)	✓
Maximaal intern geheugen ondersteund door processor	128 GB	Intel® Standard Manageability (ISM, Standaard beheerbaarheid)	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM, DDR5-SDRAM	Eisen aan de omgeving	
Geheugen kanaal *	Dubbelkanaals	Tjunction	100 °C
Geheugen bandbreedte (max)	76,8 GB/s		
Grafisch			
Ingebouwde grafische adapter *	✗		
Aparte grafische adapter *	✗		
On-board graphics adapter model *	Niet beschikbaar		
Discreet grafische adapter model *	Niet beschikbaar		
Kenmerken			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Marktsegment	Desktop		

Kenmerken		Logistieke gegevens	
Gebruiksvoorwaarden	PC/Client/Tablet	Code geharmoniseerd systeem (HS) 85423119	
Maximaal aantal PCI Express-lijnen	20	Verpakking	
PCI Express slots versie	5.0, 4.0	Type verpakking	Retaildoos
PCI Express configuraties	1x16+1x4, 2x8+1x4	Technische details	
Ondersteunde instructie sets	SSE4.1, SSE4.2, AVX 2.0	Doelgroep	Gaming, Content Creation
Schaalbaarheid	1S	Lanceringsdatum	Q1'22
CPU configuratie (max)	1	Status	Launched
		Gewicht en omvang	
		Verpakkingsgrootte processor	45 x 37.5 mm
		Overige specificaties	
		Maximum intern geheugen	128 GB



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