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CPU s1700 INTEL Core i7-12700 12-Core up to 4.90GHz Tray

Šifra: 5531
Kategorija proizvoda: Procesori
Proizvođač: INTEL

Cena: 38.151,00 rsd.

Product Collection12th Generation Intel® Core™ i7 Processors



Code NameProducts formerly Alder Lake

Processor Numberi7-12700
Launch DateQ1'22
Use ConditionsPC/Client/Tablet, Workstation

of Performance-cores8
Total Threads20
Intel® Turbo Boost Max Technology 3.0 Frequency ‡
4.90 GHz
Efficient-core Max Turbo Frequency3.60 GHz
Efficient-core Base Frequency1.60 GHz
Total L2 Cache12 MB
Maximum Turbo Power180 W

DatasheetView now

Memory TypesUp to DDR5 4800 MT/s
Up to DDR4 3200 MT/s
Max Memory Bandwidth76.8 GB/s

Graphics Base Frequency300 MHz
Graphics OutputeDP 1.4b, DP 1.4a, HDMI 2.1
Max Resolution (HDMI)‡4096 x 2160 @ 60Hz
Max Resolution (eDP - Integrated Flat Panel)‡5120 x 3200 @ 120Hz
OpenGL* Support4.5
Multi-Format Codec Engines2
Intel® Clear Video HD TechnologyYes
Device ID0x4680

Max # of DMI Lanes8
PCI Express Revision5.0 and 4.0
Max # of PCI Express Lanes20

CPU Specifications

Total Cores12

Supplemental Information

Embedded Options AvailableYes

Memory Specifications

Max Memory Size (dependent on memory type)128 GB

Processor Graphics

Processor Graphics ‡Intel® UHD Graphics 770

Expansion Options

Direct Media Interface (DMI) Revision4.0

Package Specifications

Sockets Supported	FCLGA1700	Max CPU Configuration	1	Thermal
		T _{JUNCTION}	100°C	
Advanced Technologies				
Intel® Gaussian & Neural Accelerator	3.0	Intel® Thread Director	Yes	Intel®
		Intel® Optane™ Memory Supported	‡Yes	Intel®
		Intel® Turbo Boost Max Technology 3.0	‡Yes	Intel®
		Intel® Hyper-Threading Technology	‡Yes	Intel®
		Instruction Set	64-bit	Instruc
		Idle States	Yes	Intel®
		Thermal Monitoring Technologies	Yes	Intel®

Security & Reliability

Intel vPro® Platform Eligibility	‡Yes	Intel vPro® Enterprise Platform Eligibility	‡Yes	Intel vP
		Intel® Threat Detection Technology (TDT)	Yes	Intel®
		Intel® Standard Manageability (ISM)	‡Yes	Intel®
		Intel® Hardware Shield Eligibility	‡Yes	Intel®
		Intel® Total Memory Encryption - Multi Key	Yes	Intel®
		Intel® AES New Instructions	Yes	Secure
		Intel® OS Guard	Yes	Intel®
		Execute Disable Bit	‡Yes	Intel®
		Mode-based Execute Control (MBEC)	Yes	Intel®
		Intel® Virtualization Technology with Redirect Protection (VT-rp)	‡Yes	Intel®
		Intel® Virtualization Technology for Directed I/O (VT-d)	‡ Yes	Intel®