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

Šifra: 34801
Kategorija proizvoda: Procesori
Proizvođač: INTEL

Cena: **36.520,00**

Product Collection [12th Generation Intel® Core™ i7 Processors](#)



Code Name [Products formerly Alder Lake](#)

Processor Number i7-12700

Launch Date Q1'22

Use Conditions PC/Client/Tablet, Workstation

of Performance-cores 8

Total Threads 20

Intel® Turbo Boost Max Technology 3.0 Frequency † 4.90 GHz

Efficient-core Max Turbo Frequency 3.60 GHz

Efficient-core Base Frequency 1.60 GHz

Total L2 Cache 12 MB

Maximum Turbo Power 180 W

Datasheet [View now](#)

Memory Types Up to DDR5 4800 MT/s
Up to DDR4 3200 MT/s

Max Memory Bandwidth 76.8 GB/s

Graphics Base Frequency 300 MHz

Graphics Output DP 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* Support 4.5

Multi-Format Codec Engines 2

Intel® Clear Video HD Technology Yes

Device ID 0x4680

Max # of DMI Lanes 8

PCI Express Revision 5.0 and 4.0

Max # of PCI Express Lanes 20

CPU Specifications

Total Cores 12

Supplemental Information

Embedded Options Available Yes

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) Revision 4.0

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®