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

Šifra:
Kategorija proizvoda: Intel procesori
Proizvođač: Intel

Cena: **37.564,00** rsd.

CPU s1700 INTEL Core i7-12700 12-Core up to 4.90GHz Tray
Product Collection [12th Generation Intel® Core™ i7 Processors](#)
Code Name [Products formerly Alder Lake](#)
Vertical Segment Desktop
Processor Number i7-12700
Status Launched
Launch Date Q1'22
Lithography Intel 7
Use Conditions PC/Client/Tablet, Workstation

CPU Specifications

Total Cores 12
of Performance-cores 8
of Efficient-cores 4
Total Threads 20
Max Turbo Frequency 4.90 GHz
Intel® Turbo Boost Max Technology 3.0 Frequency [‡]4.90 GHz
Performance-core Max Turbo Frequency 4.80 GHz
Efficient-core Max Turbo Frequency 3.60 GHz
Performance-core Base Frequency 2.10 GHz
Efficient-core Base Frequency 1.60 GHz
Cache 25 MB Intel® Smart Cache
Total L2 Cache 12 MB
Processor Base Power 65 W
Maximum Turbo Power 180 W

Supplemental Information

Embedded Options Available Yes
Datasheet [View now](#)

Memory Specifications

Max Memory Size (dependent on memory type) 128 GB
Memory Types Up to DDR5 4800 MT/s
Up to DDR4 3200 MT/s
Max # of Memory Channels 2
Max Memory Bandwidth 76.8 GB/s
ECC Memory Supported [‡]Yes

Processor Graphics

Processor Graphics [‡]Intel® UHD Graphics 770
Graphics Base Frequency 300 MHz
Graphics Max Dynamic Frequency 1.50 GHz

Graphics OutputDP 1.4b, DP 1.4a, HDMI 2.1
Execution Units32
Max Resolution (HDMI)‡4096 x 2160 @ 60Hz
Max Resolution (DP)‡7680 x 4320 @ 60Hz
Max Resolution (eDP - Integrated Flat Panel)‡5120 x 3200 @ 120Hz
DirectX* Support12
OpenGL* Support4.5
OpenCL* Support3.0
Multi-Format Codec Engines2
Intel® Quick Sync VideoYes
Intel® Clear Video HD TechnologyYes
of Displays Supported ‡4
Device ID0x4680

Expansion Options

Direct Media Interface (DMI) Revision4.0
Max # of DMI Lanes8
Scalability1S Only
PCI Express Revision5.0 and 4.0
PCI Express Configurations ‡Up to 1x16+4, 2x8+4
Max # of PCI Express Lanes20

Package Specifications

Sockets SupportedFCLGA1700
Max CPU Configuration1
Thermal Solution SpecificationPCG 2020C
T_{JUNCTION}100°C

Advanced Technologies

Intel® Gaussian & Neural Accelerator3.0
Intel® Thread DirectorYes
Intel® Deep Learning Boost (Intel® DL Boost)Yes
Intel® Optane™ Memory Supported ‡Yes
Intel® Speed Shift TechnologyYes
Intel® Turbo Boost Max Technology 3.0 ‡Yes
Intel® Turbo Boost Technology ‡2.0
Intel® Hyper-Threading Technology ‡Yes
Intel® 64 ‡Yes
Instruction Set64-bit
Instruction Set ExtensionsIntel® SSE4.1, Intel® SSE4.2, Intel® AVX2
Idle StatesYes
Enhanced Intel SpeedStep® TechnologyYes
Thermal Monitoring TechnologiesYes
Intel® Volume Management Device (VMD)Yes

Security & Reliability

Intel vPro® Platform Eligibility ‡Yes
Intel vPro® Enterprise Platform Eligibility ‡Yes
Intel vPro® Essentials Platform Eligibility ‡Yes
Intel® Threat Detection Technology (TDT)Yes
Intel® Active Management Technology (AMT) ‡Yes
Intel® Standard Manageability (ISM) ‡Yes
Intel® One-Click Recovery ‡Yes
Intel® Hardware Shield Eligibility ‡Yes
Intel® Control-Flow Enforcement TechnologyYes
Intel® Total Memory Encryption - Multi KeyYes
Intel® Total Memory EncryptionYes
Intel® AES New InstructionsYes
Secure KeyYes
Intel® OS GuardYes
Intel® Trusted Execution Technology ‡Yes
Execute Disable Bit ‡Yes
Intel® Boot GuardYes
Mode-based Execute Control (MBEC)Yes

Intel® Stable IT Platform Program (SIPP) Yes

Intel® Virtualization Technology with Redirect Protection (VT-rp) †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