

CPU S1700 INTEL CORE I7-12700 12-CORE UP TO 4.90GHZ TRAY

Naziv: CPU S1700 INTEL CORE I7-12700 12-CORE UP TO 4.90GHZ TRAY

Slika:



Šifra: #BM1711641726042470850

Barkod: 8592978354930

Proizvođač: INTEL

Detalji

Kategorija: PROCESORI

Oznake:

Atributi:

Cena

Cena sa PDV: 44,283.00 RSD *WEB CENA
48,711.30 RSD *Cena za odloženo web plaćanje

Ostalo

Opis:

- 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
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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 Output eDP 1.4b, DP 1.4a, HDMI 2.1
- Execution Units 32
- 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* Support 12
- OpenGL* Support 4.5
- OpenCL* Support 3.0
- Multi-Format Codec Engines 2
- Intel® Quick Sync Video Yes
- Intel® Clear Video HD Technology Yes
- # of Displays Supported † 4
- Device ID 0x4680

Expansion Options

- Direct Media Interface (DMI) Revision 4.0
- Max # of DMI Lanes 8
- Scalability 1S Only
- PCI Express Revision 5.0 and 4.0
- PCI Express Configurations † Up to 1x16+4, 2x8+4
- Max # of PCI Express Lanes 20

Package Specifications

- Sockets Supported FCLGA1700
- Max CPU Configuration 1
- Thermal Solution Specification PCG 2020C
- T_{JUNCTION} 100°C
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Advanced Technologies

- Intel® Gaussian & Neural Accelerator 3.0
- Intel® Thread Director Yes
- Intel® Deep Learning Boost (Intel® DL Boost) Yes
- Intel® Optane™ Memory Supported † Yes
- Intel® Speed Shift Technology Yes
- Intel® Turbo Boost Max Technology 3.0 † Yes
- Intel® Turbo Boost Technology † 2.0
- Intel® Hyper-Threading Technology † Yes
- Intel® 64 † Yes
- Instruction Set 64-bit
- Instruction Set Extensions Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
- Idle States Yes
- Enhanced Intel SpeedStep® Technology Yes
- Thermal Monitoring Technologies Yes

- 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