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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:	#BM17116317828750948 39
Barkod:	8592978354930
Proizvođač:	INTEL

Detalji

Kategorija:	PROCESORI
Oznake:	
Atributi:	KLASA PROCESORA: INTEL® CORE™ I7 PROCESORSKO LEŽIŠTE: INTEL® 1700 BROJ JEZGARA PROCESORA: 12

Cena

Cena sa PDV:	42,011.69 RSD *WEB CENA 46,212.86 RSD *Cena za odloženo web plaćanje

Ostalo

Opis:

- Product Collection12th Generation Intel® Core™ i7 Processors
- Code NameProducts formerly Alder Lake
- Vertical SegmentDesktop
- Processor Numberi7-12700
- StatusLaunched
- Launch DateQ1'22
- LithographyIntel 7
- Use ConditionsPC/Client/Tablet, Workstation
-

CPU Specifications

- Total Cores12
- # of Performance-cores8
- # of Efficient-cores4
- Total Threads20
- Max Turbo Frequency4.90 GHz
- Intel® Turbo Boost Max Technology 3.0 Frequency ‡4.90 GHz
- Performance-core Max Turbo Frequency4.80 GHz
- Efficient-core Max Turbo Frequency3.60 GHz
- Performance-core Base Frequency2.10 GHz
- Efficient-core Base Frequency1.60 GHz

- Cache25 MB Intel® Smart Cache
- Total L2 Cache12 MB

- Processor Base Power65 W
- Maximum Turbo Power180 W

Supplemental Information

- Embedded Options AvailableYes
- DatasheetView now

Memory Specifications

- Max Memory Size (dependent on memory type)128 GB
- Memory TypesUp to DDR5 4800 MT/s
  Up to DDR4 3200 MT/s
- Max # of Memory Channels2
- Max Memory Bandwidth76.8 GB/s
- ECC Memory Supported ‡Yes

Processor Graphics

- Processor Graphics ‡Intel® UHD Graphics 770
- Graphics Base Frequency300 MHz
- Graphics Max Dynamic Frequency1.50 GHz
- Graphics OutputeDP 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
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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