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

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Šifra: 26684

Kategorija proizvoda: Procesori

Proizvođač: INTEL

**Cena: 36.834 rsd.**



Intel Core i7-12700



## [Processors](#)

Vertical Segment Desktop

Status Launched

Lithography Intel 7

Code Name [Products formerly Alder Lake](#)

Processor Number i7-12700

Launch Date Q1'22

Use Conditions PC/Client/Tablet, Workstation

## CPU Specifications

Total Cores 12

# of Efficient-cores 4

Max Turbo Frequency 4.90 GHz

Performance-core Max Turbo Frequency 4.80 GHz

Performance-core Base Frequency 2.10 GHz

Cache 25 MB Intel® Smart Cache

Processor Base Power 65 W

# 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

## Supplemental Information

Embedded Options Available Yes

Datasheet [View now](#)

## Memory Specifications

Max Memory Size (dependent on memory type) 128 GB

Max # of Memory Channels 2

ECC Memory Supported †Yes

Memory Types Up to DDR5 4800 MT/s

Up to DDR4 3200 MT/s

Max Memory Bandwidth 76.8 GB/s

## Processor Graphics

Processor Graphics †Intel® UHD Graphics 770

Graphics Max Dynamic Frequency 1.50 GHz

Execution Units 32

Max Resolution (DP) †7680 x 4320 @ 60Hz

DirectX\* Support 12

OpenCL\* Support 3.0

Intel® Quick Sync Video Yes

# of Displays Supported †4

Graphics Base Frequency 300 MHz

Graphics Output eDP 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

## Expansion Options

Direct Media Interface (DMI) Revision 4.0

Scalability 1S Only

PCI Express Configurations †Up to 1x16+4, 2x8+4

Max # of DMI Lanes 8

PCI Express Revision 5.0 and 4.0

Max # of PCI Express Lanes 20

## Package Specifications

Sockets Supported FCLGA1700

Thermal Solution Specification PCG 2020C

Max CPU Configuration 1

T<sub>JUNCTION</sub> 100°C

## Advanced Technologies

Intel® Gaussian & Neural Accelerator 3.0

Intel® Deep Learning Boost (Intel® DL Boost) Yes

Intel® Speed Shift Technology Yes

Intel® Turbo Boost Technology †2.0

Intel® 64 †Yes

Instruction Set Extensions Intel® SSE4.1, Intel® SSE4.2,

Intel® AVX2

Enhanced Intel SpeedStep® Technology Yes

Intel® Volume Management Device (VMD) Yes

Intel® Thread Director Yes

Intel® Optane™ Memory Supported †Yes

Intel® Turbo Boost Max Technology 3.0 †Yes

Intel® Hyper-Threading Technology †Yes

Instruction Set 64-bit

Idle States Yes

Thermal Monitoring Technologies Yes