CPU s1700 INTEL Core i5-12600KF 10-Core up to 4.90GHz Box

Šifra: 23231
Kategorija prozivoda: Intel
Proizvođač: Intel

Cena: 23.888,00 rsd.

Essentials

Product Collection 12th Generation Intel® Core™ i5 Processors

Code Name Products formerly Alder Lake

Vertical Segment Desktop

Processor Number i5-12600KF

Status Launched

Launch Date Q4'21

Lithography Intel 7

Use Conditions PC/Client/Tablet

Recommended Customer Price $290.00 - $300.00

CPU Specifications

Total Cores 10

# of Performance-cores 6

# of Efficient-cores 4

Total Threads 16

Max Turbo Frequency 4.90 GHz

Performance-core Max Turbo Frequency 4.90 GHz

Efficient-core Max Turbo Frequency 3.60 GHz

Performance-core Base Frequency 3.70 GHz

Efficient-core Base Frequency 2.80 GHz

Cache 20 MB Intel® Smart Cache

Total L2 Cache 9.5 MB

Processor Base Power 125 W

Maximum Turbo Power 150 W

Supplemental Information

Embedded Options AvailableNo
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

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 2020A
$T_{JUNCTION}$100°C
Package Size45.0 mm x 37.5 mm

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 ‡No

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® Standard Manageability (ISM) ‡Yes

Intel® Control-Flow Enforcement TechnologyYes

Intel® AES New InstructionsYes

Secure KeyYes

Intel® OS GuardYes

Execute Disable Bit ‡Yes

Intel® Boot GuardYes

Mode-based Execute Control (MBEC)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