

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

Šifra: 44183
Kategorija proizvoda: Procesori
Proizvođač: Intel

Cena: **35.651,00** din.

Product Collection12th Generation Intel® Core™ i7 Processors

Code NameProducts formerly Alder Lake
Processor Numberi7-12700
Launch DateQ1'22
Use ConditionsPC/Client/Tablet, Workstation

Vertical
Status
Lithogr

CPU Specifications

Total Cores12

of Performance-cores8
Total Threads20
Intel® Turbo Boost Max Technology 3.0 Frequency †
4.90 GHz
Efficient-core Max Turbo Frequency3.60 GHz
Efficient-core Base Frequency1.60 GHz
Total L2 Cache12 MB
Maximum Turbo Power180 W

of Ef
Max Tu
Perform
Perform
Cache2
Process

Supplemental Information

Embedded Options AvailableYes

DatasheetView now

Memory Specifications

Max Memory Size (dependent on memory type)128 GB

Memory TypesUp to DDR5 4800 MT/sUp to DDR4 3200 MT/s
Max Memory Bandwidth76.8 GB/s

Max #
ECC Me

Processor Graphics

Processor Graphics †Intel® UHD Graphics 770

Graphics Base Frequency300 MHz
Graphics OutputeDP 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* Support4.5
Multi-Format Codec Engines2
Intel® Clear Video HD TechnologyYes
Device ID0x4680

Graphi
Execut
Max Re
DirectX
OpenC
Intel®
of DI

Expansion Options

Direct Media Interface (DMI) Revision4.0

Max # of DMI Lanes8
PCI Express Revision5.0 and 4.0
Max # of PCI Express Lanes20

Scalabl
PCI Exp

Package Specifications

Sockets Supported FCLGA1700

Max CPU Configuration 1

Thermal

T_{JUNCTION} 100°C

Advanced Technologies

Intel® Gaussian & Neural Accelerator 3.0

Intel® Thread Director Yes

Intel®

Intel® Optane™ Memory Supported †Yes

Intel®

Intel® Turbo Boost Max Technology 3.0 †Yes

Intel®

Intel® Hyper-Threading Technology †Yes

Intel®

Instruction Set 64-bit

Instruc

Idle States Yes

Intel®

Thermal Monitoring Technologies Yes

Intel®

Security & Reliability

Intel vPro® Platform Eligibility †Yes

Intel vPro® Enterprise Platform Eligibility †Yes

Intel vP

Intel® Threat Detection Technology (TDT) Yes

Intel®

Intel® Standard Manageability (ISM) †Yes

Intel®

Intel® Hardware Shield Eligibility †Yes

Intel®

Intel® Total Memory Encryption - Multi Key Yes

Intel®

Intel® AES New Instructions Yes

Secure

Intel® OS Guard Yes

Intel®

Execute Disable Bit †Yes

Intel®

Mode-based Execute Control (MBEC) Yes

Intel®

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

Intel®

Intel® Virtualization Technology for Directed I/O (VT-d) †Yes

Intel®