Informacije o proizvodu (EN)

INTEL Core i9-12900 16-Core 2.40 GHz (5.10 GHz) procesor

Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

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Intel® Core™ i9-12900 Processor

30M Cache, up to 5.10 GHz

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Essentials

⬇ Export specifications

Product Collection	12th Generation Intel® Core™ i9 Processors
Code Name	Products formerly Alder Lake
Vertical Segment	Desktop
Processor Number ?	i9-12900
Status	Launched
Launch Date ?	Q1'22
Lithography ?	Intel 7
Use Conditions ?	PC/Client/Tablet, Workstation

CPU Specifications

Total Cores ?	16
# of Performance-cores	8
# of Efficient-cores	8
Total Threads ?	24
Max Turbo Frequency ?	5.10 GHz
Intel® Turbo Boost Max Technology 3.0 Frequency ‡ ?	5.10 GHz
Performance-core Max Turbo Frequency ?	5.00 GHz
Efficient-core Max Turbo Frequency ?	3.80 GHz
Performance-core Base Frequency	2.40 GHz
Efficient-core Base Frequency	1.80 GHz
ache ?	30 MB Intel® Smart Cache

Total L2 Cache	14 MB
Processor Base Power ?	65 W
Maximum Turbo Power ?	202 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 ?	1.55 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 ⑦	20

Package Specifications

Sockets Supported ⑦	FCLGA1700
Max CPU Configuration	1
Thermal Solution Specification ⑦	PCG 2020C
T$_{JUNCTION}$ ⑦	100°C
Package Size	45.0 mm x 37.5 mm

Advanced Technologies

Intel® Gaussian & Neural Accelerator ⑦	3.0
Intel® Thread Director	Yes
Intel® Deep Learning Boost (Intel® DL Boost) ⑦	Yes
Intel® Optane™ Memory Supported ‡ ⑦	Yes
Intel® Speed Shift Technology ⑦	Yes
Intel® Turbo Boost Max Technology 3.0 ‡ ⑦	Yes
Intel® Turbo Boost Technology ‡ ⑦	2.0
Intel® Hyper-Threading Technology ‡ ⑦	Yes
Intel® 64 ‡ ⑦	Yes
Instruction Set ⑦	64-bit
Instruction Set Extensions ⑦	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
Idle States ⑦	Yes
Enhanced Intel SpeedStep® Technology ⑦	Yes
Thermal Monitoring Technologies ⑦	Yes
Intel® Volume Management Device (VMD) ⑦	Yes

Security & Reliability

Intel vPro® Platform Eligibility ‡ ⑦	Yes
Intel vPro® Enterprise Platform Eligibility ‡ ⑦	Yes
Intel vPro® Essentials Platform Eligibility ‡ ⑦	Yes
Intel® Threat Detection Technology (TDT)	Yes
Intel® Active Management Technology (AMT) ‡ ⑦	Yes
Intel® Standard Manageability (ISM) ‡ ⑦	Yes
Intel® One-Click Recovery ‡	Yes
Intel® Hardware Shield Eligibility ‡ ⑦	Yes
Intel® Control-Flow Enforcement Technology ⑦	Yes
Intel® Total Memory Encryption - Multi Key	Yes
Intel® Total Memory Encryption ⑦	Yes
Intel® AES New Instructions ⑦	Yes

Secure Key ?	Yes
Intel® OS Guard	Yes
Intel® Trusted Execution Technology ‡ ?	Yes
Execute Disable Bit ‡ ?	Yes
Intel® Boot Guard ?	Yes
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

More support options for Intel® Core™ i9-12900 Processor (30M Cache, up to 5.10 GHz)

Product Support

Downloads and Software

Support Community

Warranty and Replacement

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Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html? wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information and applicability of this technology.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

UHD brand.

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Za najnovije informacije o ceni, dostupnim akcijama i tehničkim karakteristikama proizvoda koji se pominje u ovom dokumentu, molimo posetite našu stranicu klikom na sledeći link:

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