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CPU INTEL Core i9-10900K 10-Core 3.7GHz
(5.30GHz) Tray

Šifra: 2505

Kategorija proizvoda: Procesori

Proizvođač: INTEL

Cena: 56.951 rsd.



Essentials

Product Collection [10th Generation Intel® Core™ i9](#)

[Processors](#)

Vertical Segment Desktop

Status Launched

Lithography 14 nm

Recommended Customer Price \$488.00 - \$499.00

Code Name [Products formerly Comet Lake](#)

Processor Number i9-10900K

Launch Date Q2'20

Use Conditions PC/Client/Tablet

CPU Specifications

Total Cores 10

Max Turbo Frequency 5.30 GHz

Intel® Turbo Boost Max Technology 3.0 Frequency †5.20 GHz

Processor Base Frequency 3.70 GHz

Bus Speed 8 GT/s

Configurable TDP-down Frequency 3.30 GHz

Total Threads 20

Intel® Thermal Velocity Boost Frequency 5.30 GHz

Intel® Turbo Boost Technology 2.0 Frequency †5.10 GHz

Cache 20 MB Intel® Smart Cache

TDP 125 W

Configurable TDP-down 95 W

Supplemental Information

Embedded Options Available No

Datasheet [View now](#)

Memory Specifications

Max Memory Size (dependent on memory type) 128 GB

Max # of Memory Channels 2

ECC Memory Supported †No

Memory Types DDR4-2933

Max Memory Bandwidth 45.8 GB/s

Processor Graphics

Processor Graphics †Intel® UHD Graphics 630

Graphics Max Dynamic Frequency 1.20 GHz

4K Support Yes, at 60Hz

Max Resolution (DP) †4096 x 2304@60Hz

DirectX* Support 12

Intel® Quick Sync Video Yes

Intel® Clear Video HD Technology Yes

of Displays Supported †3

Graphics Base Frequency 350 MHz

Graphics Video Max Memory 64 GB

Max Resolution (HDMI) †4096 x 2160@30Hz

Max Resolution (eDP - Integrated Flat Panel) †4096 x 2304@60Hz

OpenGL* Support 4.5

Intel® InTru™ 3D Technology Yes

Intel® Clear Video Technology Yes

Device ID 0x9BC5

Expansion Options

Scalability 1S Only

PCI Express Configurations †Up to 1x16, 2x8, 1x8+2x4

PCI Express Revision 3.0

Max # of PCI Express Lanes 16

Package Specifications

Sockets Supported FCLGA1200

Thermal Solution Specification PCG 2015D

T_{JUNCTION} 100°C

Max CPU Configuration 1

Intel® Thermal Velocity Boost Temperature 70 °C

Package Size 37.5mm x 37.5mm

Advanced Technologies

Intel® Optane™ Memory Supported †Yes

Intel® Turbo Boost Max Technology 3.0 †Yes

Intel vPro® Platform Eligibility †Yes

Intel® Virtualization Technology (VT-x) †Yes

Intel® VT-x with Extended Page Tables (EPT) †Yes

Intel® 64 †Yes

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

Intel® AVX2

Intel® Thermal Velocity Boost Yes

Intel® Turbo Boost Technology †2.0

Intel® Hyper-Threading Technology †Yes

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

Intel® Transactional Synchronization Extensions No

Instruction Set 64-bit

Idle States Yes