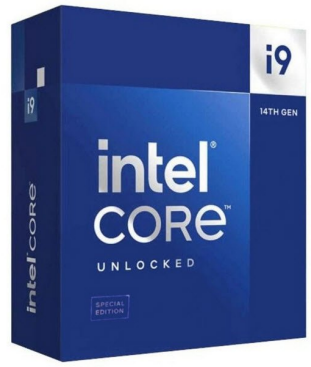
ComX Computers
Product Specification Sheet

CP-IA14900KS

Intel Core i9 14900KS 3.2GHz 24 Cores 32 Threads LGA 1700 Processor

Product Overview

Intel Core i9 14900KS 24/32 - Raptor: LGA 1700, 24 Cores, 32 Threads, 3.2 GHz Base, 6.2 GHz Turbo, PCIe 5.0, DDR5-5600, Integrated UHD 770 Graphics, Unlocked for Overclocking.



Specifications

Specifications:

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Specifications	
Product Code	CP-IA14900KS
Essentials	
Product Collection	Intel Core i9 processors (14th gen)
Code Name	Products formerly Raptor Lake
Vertical Segment	Desktop
Processor Number	i9-14900KS
Lithography	Intel 7
CPU Specifications	
Total Cores	24
# of Performance-cores	8
# of Efficient-cores	16
Total Threads	32
Max Turbo Frequency	6.2 GHz
Intel Thermal Velocity Boost Frequency	6.2 GHz

Intel Turbo Boost Max Technology 3.0 Frequency	5.9 GHz
Performance-core Max Turbo Frequency	5.7 GHz
Efficient-core Max Turbo Frequency	4.5 GHz
Performance-core Base Frequency	3.2 GHz
Efficient-core Base Frequency	2.4 GHz
Cache	36 MB Intel Smart Cache
Total L2 Cache	32 MB
Processor Base Power	150 W
Maximum Turbo Power	253 W
Supplemental Information	
Embedded Options Available	No
Use Conditions	PC/Client/Tablet
Memory Specifications	
Max Memory Size (dependent on memory type)	192 GB
Memory Types	Up to DDR5 5600 MT/s
	Up to DDR4 3200 MT/s
Max # of Memory Channels	2
Max Memory Bandwidth	89.6 GB/s
ECC Memory Supported	Yes
GPU Specifications	
GPU Name	Intel UHD Graphics 770
Graphics Base Frequency	300 MHz
Graphics Max Dynamic Frequency	1.65 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
Multi-Format Codec Engines	2
Intel Quick Sync Video	Yes
Intel Clear Video HD Technology	Yes

# of Displays Supported	4
Device ID	0xA780
Expansion Options	
Direct Media Interface (DMI) Revision	4
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	20
Package Specifications	
Sockets Supported	FCLGA1700
Max CPU Configuration	1
TJUNCTION	100 degreesC
Package Size	45.0 mm x 37.5 mm
Max Operating Temperature	100 degreesC
Advanced Technologies	
Intel Volume Management Device (VMD)	Yes
Intel Gaussian & Neural Accelerator	3
Intel Thread Director	Yes
Intel Deep Learning Boost (Intel DL Boost) on CPU	Yes
Intel Speed Shift Technology	Yes
Intel Adaptive Boost Technology	Yes
Intel Thermal Velocity Boost	Yes
Intel Turbo Boost Max Technology 3.0	Yes
Intel Turbo Boost Technology	2
Intel Hyper-Threading Technology	Yes
Intel 64	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel SSE4.1, Intel SSE4.2, Intel AVX2
Idle States	Yes
Enhanced Intel SpeedStep Technology	Yes
Thermal Monitoring Technologies	Yes
Security & Reliability	

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

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/CP-IA14900KS-Intel-Core-i9-14900KS-3-2GHz-24-Cores-32-Threads-LGA-1700-Processor-p-315862.php

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