

INTEL

Procesor Intel S1700 CORE i9 14900KS TRAY GEN14

SKU: 17014399 · EAN: 8592978531973

SPECIFIKAT TEKNIKE**109 specifikat e produktit**

ATRIBUTI	VLERA
Processor	
Processor manufacturer	Intel
Processor generation	Intel® Core™ i9 (14th gen)
Processor model	i9-14900KS
Processor family	Intel® Core™ i9
Processor cores	24
Processor socket	LGA 1700
Processor threads	32
Processor operating modes	64-bit
Performance cores	8
Efficient cores	16
Processor boost frequency	6.2 GHz
Performance-core boost frequency	5.7 GHz
Performance-core base frequency	3.2 GHz
Efficient-core boost frequency	4.5 GHz
Efficient-core base frequency	2.4 GHz
Processor cache	36 MB
Processor cache type	Smart Cache
Package type	Tray
Processor base power	150 W
Maximum turbo power	253 W
Stepping	B0
Maximum number of DMI lanes	8
Memory bandwidth supported by processor (max) 89.6 GB/s	
Processor codename	Raptor Lake
Processor ARK ID	237504
Memory	

Maximum internal memory supported by processor	192 GB
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM
Memory channels	Dual-channel
ECC	Yes
Memory bandwidth (max)	89.6 GB/s
Graphics	
On-board graphics card	Yes
Discrete graphics card	No
On-board graphics card model	Intel UHD Graphics 770
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1
On-board graphics card base frequency	300 MHz
On-board graphics card dynamic frequency (max)	1650 MHz
Number of displays supported (on-board graphics)	4
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.5
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz
On-board graphics card ID	0xA780
Discrete graphics card model	Not available
Number of execution units	32
Multi-Format Codec Engines	2
Features	
Execute Disable Bit	Yes
Idle States	Yes
Thermal Monitoring Technologies	Yes
Market segment	Desktop
Use conditions	PC/Client/Tablet
Maximum number of PCI Express lanes	20

PCI Express slots version	4.0, 5.0
PCI Express configurations	1x16+1x4, 2x8+1x4
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Scalability	1S
CPU configuration (max)	1
Embedded options available	No
Direct Media Interface (DMI) Revision	4.0
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	740.17B1

Processor special features

Intel® Hyper Threading Technology (Intel® HT Technology)	Yes
Intel® Turbo Boost Technology	2.0
Intel® Quick Sync Video Technology	Yes
Intel® Clear Video HD Technology (Intel® CVT HD)	Yes
Intel® AES New Instructions (Intel® AES-NI)	Yes
Enhanced Intel SpeedStep Technology	Yes
Intel Trusted Execution Technology	Yes
Intel® Speed Shift Technology	Yes
Intel® Thermal Velocity Boost	Yes
Intel® Adaptive Boost Technology	Yes
Intel® Turbo Boost Max Technology 3.0 frequency	5.9 GHz
Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	Yes
Intel® Thermal Velocity Boost Frequency	6.2 GHz
Intel® Control-flow Enforcement Technology (CET)	Yes
Intel® Thread Director	Yes
Intel VT-x with Extended Page Tables (EPT)	Yes
Intel® Secure Key	Yes
Intel® Active Management Technology (Intel® AMT)	Yes
Intel® OS Guard	Yes
Intel 64	Yes
Intel Virtualization Technology (VT-x)	Yes
Intel Virtualization Technology for Directed I/O (VT-d)	Yes

Intel Turbo Boost Max Technology 3.0	Yes
Intel® Boot Guard	Yes
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	Yes
Intel® Volume Management Device (VMD)	Yes
Mode-based Execute Control (MBE)	Yes
Intel® Standard Manageability (ISM)	Yes
Intel® One-Click Recovery	Yes
Intel® Remote Platform Erase (RPE)	Yes
Intel® Virtualization Technology with Redirect Protection (VT-rp)	Yes
Intel vPro® Enterprise Platform Eligibility	Yes
Intel® Threat Detection Technology (TDT)	Yes
Intel® Hardware Shield Eligibility	Yes
Intel® Total Memory Encryption - Multi Key	Yes
Intel vPro® Essentials Platform Eligibility	Yes
Operational conditions	
Tjunction	100 °C
Technical details	
OpenCL version	3.0
Launch date	Q1'24
Status	Launched
Logistics data	
Harmonized System (HS) code	8542310001
Weight & dimensions	
Processor package size	45 x 37.5 mm
Other features	
L2 cache	32768 KB
Maximum internal memory	192 GB
Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1