Intel Core i7-14700 processor 33 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8071514700

Product name : i7-14700

Boxed Intel® Core™ i7 processor 14700 (33M Cache, up to 5.40 GHz) FC-LGA16A Intel Core i7-14700. Processor family: Intel® Core™ i7, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 192 GB, Memory types supported by processor: DDR4-SDRAM, DDR5-SDRAM. 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. Market segment: Desktop, Use conditions: Workstation, PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5.4 GHz





Processor		Features	
Processor manufacturer *	Intel	Thermal Monitoring Technologies	1
Processor generation	Intel Core i7-14xxx	Market segment	Desktop
Processor model *	i7-14700	Use conditions	Workstation, PC/Client/Tablet
Processor family *	Intel® Core™ i7	Maximum number of PCI Express	20
Processor cores *	20	lanes	
Processor socket *	LGA 1700	PCI Express slots version	4.0, 5.0
Processor threads	28	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor operating modes *	64-bit	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Performance cores	8	Scalability	15
Efficient cores	12	CPU configuration (max)	1
Processor boost frequency	5.4 GHz	Embedded options available	4
Performance-core boost frequency	5.3 GHz	Direct Media Interface (DMI) Revision	4.0
Performance-core base frequency	2.1 GHz	Export Control Classification	5A992C
Efficient-core boost frequency	4.2 GHz	Number (ECCN)	
Efficient-core base frequency	1.5 GHz	Commodity Classification	
Processor cache	33 MB	Automated Tracking System (CCATS)	740.17B1
Processor cache type	Smart Cache		
Box *	✓	Processor special features	
Cooler included *	✓	Intel [®] Hyper Threading Technology	1
Processor base power	65 W	(Intel [®] HT Technology)	*
Maximum turbo power	219 W	Intel® Turbo Boost Technology	2.0
Stepping	B0	Intel [®] Quick Sync Video Technology	1
Maximum number of DMI lanes	8	Intel® Clear Video HD Technology	1
Memory bandwidth supported by processor (max)	89.6 GB/s	(Intel® CVT HD) Intel® AES New Instructions (Intel®	,
Processor codename	Raptor Lake	AES-NI)	1
Processor ARK ID	236781	Enhanced Intel SpeedStep Technology	✓
Memory		Intel® Speed Shift Technology	1
Maximum internal memory supported by processor	192 GB	Intel® Turbo Boost Max Technology 3.0 frequency	5.4 GHz
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Memory channels * ECC	Dual-channel	Intel® Control-flow Enforcement Technology (CET)	✓
Memory bandwidth (max)	89.6 GB/s	Intel [®] Thread Director	1
Graphics		Intel VT-x with Extended Page Tables (EPT)	✓
On-board graphics card *	√	Intel® Secure Key	1
Discrete graphics card *	×	Intel [®] OS Guard	1
On-board graphics card model *	Intel UHD Graphics 770	Intel 64	1
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel Virtualization Technology (VT- x)	1
On-board graphics card base frequency	300 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1600 MHz	Intel Turbo Boost Max Technology 3.0	∢
Number of displays supported (on- board graphics)	4	Intel® Boot Guard Intel® Deep Learning Boost (Intel®	4
On-board graphics card DirectX version	12.0	DL Boost) Intel® Volume Management Device	4
On-board graphics card OpenGL version	4.5	(VMD) Mode-based Execute Control (MBE)	л Л
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Intel® Standard Manageability (ISM)	
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Operational conditions	
		Tjunction	100 °C
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Technical details OpenCL version	3.0
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Launch date Status	Q1'24 Launched
On-board graphics card refresh rate	120 Hz	Logistics data	
at maximum resolution (eDP - Integrated Flat Panel)		Harmonized System (HS) code	8542310001
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Weight & dimensions	
On-board graphics card ID	0xA780	Processor package size	45 x 37.5 mm
Discrete graphics card model *	Not available	Other features	
Number of execution units	32	L2 cache	28672 KB
Multi-Format Codec Engines	2	Maximum internal memory	192 GB
Features		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1
Execute Disable Bit	1		
Idle States	1		





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