

Intel Core i3-14100 processor 12 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8071514100

Product name : i3-14100



Boxed Intel® Core™ i3 processor 14100 (12M Cache, up to 4.70 GHz) FC-LGA16A
 Intel Core i3-14100. Processor family: Intel® Core™ i3, 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 730, On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, On-board graphics card dynamic frequency (max): 1500 MHz. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. Processor package size: 45 x 37.5 mm

Processor		Features	
Processor manufacturer *	Intel	Thermal Monitoring Technologies	✓
Processor generation	Intel Core i3-14xxx	Market segment	Desktop
Processor model *	i3-14100	Use conditions	PC/Client/Tablet
Processor family *	Intel® Core™ i3	Maximum number of PCI Express lanes	20
Processor cores *	4	PCI Express slots version	4.0, 5.0
Processor socket *	LGA 1700	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor threads	8	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor operating modes *	64-bit	Scalability	1S
Performance cores	4	CPU configuration (max)	1
Processor boost frequency	4.7 GHz	Embedded options available	✓
Performance-core boost frequency	4.7 GHz	Direct Media Interface (DMI) Revision	4.0
Performance-core base frequency	3.5 GHz	Export Control Classification Number (ECCN)	5A992C
Processor cache	12 MB	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processor cache type	Smart Cache	Processor special features	
Box *	✓	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Cooler included *	✓	Intel® Turbo Boost Technology	2.0
Processor base power	60 W	Intel® Quick Sync Video Technology	✓
Maximum turbo power	110 W	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Stepping	H0	Intel® AES New Instructions (Intel® AES-NI)	✓
Maximum number of DMI lanes	8	Enhanced Intel SpeedStep Technology	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® Speed Shift Technology	✓
Processor codename	Raptor Lake	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Processor ARK ID	236774	Intel® Control-flow Enforcement Technology (CET)	✓
Memory		Intel VT-x with Extended Page Tables (EPT)	✓
Maximum internal memory supported by processor	192 GB	Intel® Secure Key	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel® OS Guard	✓
Memory channels *	Dual-channel	Intel 64	✓
Memory bandwidth (max)	76.8 GB/s	Intel Virtualization Technology (VT-x)	✓
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card *	✓	Intel® Boot Guard	✓
Discrete graphics card *	✗	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board graphics card model *	Intel UHD Graphics 730		
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1		
On-board graphics card dynamic frequency (max)	1500 MHz		
Number of displays supported (on-board graphics)	4		
On-board graphics card DirectX version	12.0		

Graphics		Processor special features	
On-board graphics card OpenGL version	4.5	Intel® Volume Management Device (VMD)	✓
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Mode-based Execute Control (MBE)	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Standard Manageability (ISM)	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Operational conditions	
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Technical details	
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	OpenCL version	3.0
On-board graphics card ID	0x4692	Launch date	Q1'24
Discrete graphics card model *	Not available	Status	Launched
Number of execution units	24	Logistics data	
Multi-Format Codec Engines	1	Harmonized System (HS) code	8542310001
Features		Weight & dimensions	
Execute Disable Bit	✓	Processor package size	45 x 37.5 mm
Idle States	✓	Other features	
		L2 cache	5120 KB
		Maximum internal memory	192 GB
		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1



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