

# Intel Core Ultra 5 245KF processor



<b>Artikel</b>	405210
<b>Herstellernummer</b>	BX80768245KF
<b>EAN</b>	5032037282109
Intel	

## Zusammenfassung

Intel Core Ultra 5 245KF, Intel Core Ultra 5, LGA 1851 (Socket V1), Box, Intel, 245KF, 64-bit

Intel Core Ultra 5 245KF. Processor family: Intel Core Ultra 5, Processor socket: LGA 1851 (Socket V1), Package type: Box. Neural processor unit (NPU): Intel AI Boost, AI software frameworks supported by NPU: DirectML, OpenVINO, Windows ML, ONNX RT, WebNN, Total processor performance up to: 22 TOPs. Memory channels: Dual-channel, Maximum internal memory supported by processor: 192 GB, Memory types supported by processor: DDR5-SDRAM. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. L2 cache: 26624 KB, Maximum internal memory: 192 GB

## Merkmale

### Logistics data

Harmonized System (HS) code	8542310050
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### Operational conditions

Maximum operating temperature	105 °C
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### Other features

L2 cache	26624 KB
Maximum internal memory	192 GB

### Memory

Maximum internal memory supported by processor	192 GB
Memory types supported by processor	DDR5-SDRAM
Memory clock speeds supported by processor	6400 MHz
Memory channels	Dual-channel

### Neural processor unit (NPU)

Neural processor unit (NPU)	Intel AI Boost
Sparsity support	Yes
Windows Studio effects support	Yes
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN
Total processor performance up to	22 TOPs

## Technical details

Launch date	Q4'24
Status	Launched
Memory speed (max)	6400 MHz

## Graphics

On-board graphics card	No
Discrete graphics card	No
On-board graphics card model	Not available
Discrete graphics card model	Not available

to	
NPU performance up to	13 TOPs

## 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	24
PCI Express slots version	4.0, 5.0
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Scalability	1S
Embedded options available	No
Thermal solution specification	PCG 2020A
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® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	Yes
Enhanced Intel SpeedStep Technology	Yes
Intel Trusted Execution Technology	Yes
Intel® Speed Shift Technology	Yes
Intel® Thunderbolt 4	Yes
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® OS Guard	Yes
Intel 64	Yes
Intel Virtualization Technology (VT-x)	Yes
Intel Virtualization Technology for Directed I/O (VT-d)	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

## Processor

Processor manufacturer	Intel
Processor generation	Intel Core Ultra (Series 2)

Processor model	245KF
Processor family	Intel Core Ultra 5
Processor cores	14
Processor socket	LGA 1851 (Socket V1)
Processor operating modes	64-bit
Performance cores	6
Efficient cores	8
Processor boost frequency	5.2 GHz
Performance-core boost frequency	5.2 GHz
Performance-core base frequency	4.2 GHz
Efficient-core boost frequency	4.6 GHz
Efficient-core base frequency	3.6 GHz
Processor cache	24 MB
Processor cache type	Smart Cache
Package type	Box
Cooler included	No
Processor base power	125 W
Maximum turbo power	159 W
AI software frameworks supported by CPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN
Stepping	B0
Maximum number of DMI lanes	8
Processor codename	Arrow Lake
Processor ARK ID	241066

Preisänderungen und Irrtümer vorbehalten. Alle Produkte solange der Vorrat reicht.