



**CPU INTEL U5-
245KF Intel Core
Ultra Desktop
Intel Core Ultra
5 245KF
14xCores Cache
24 MB Socket
LGA 1851
(Socket V1) Box
BX80768245KFSRQCY**



Model: BX80768245KF S RQCY

Manufacturer: INTEL

EAN: 5032037282116

Product Code: 42571

R3,928 ~~R4,320~~

245KF | Intel Core Ultra 5 | 14xProcessor cores | Processor socket LGA 1851 (Socket V1) | Processor operating modes 64-bit | Processor cache 24 MB | Package Box | Stepping B0 | Processor codename Arrow Lake | Neural processor unit (NPU) Intel AI Boost | Memory channels Dual-channel | Market segment Desktop | Intel Core Ultra | U5-245KF Summary: Intel Core Ultra 5 245KF. Processor family:

Intel Core Ultra 5, Processor socket: LGA 1851 (Socket V1), Package type: Box. Neural processor unit

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(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 | Vendor Homepage: <https://ark.intel.com/content/www/us/en/ark/products/241066/intel-core-ultra-5-processor-245kf-24m-cache-up-to-5-20-ghz.html> | AI software frameworks supported by CPU: DirectML/ONNX RT/OpenVINO/WebNN/Windows ML | Cooler included: No | Efficient cores: 8 | Efficient-core base frequency: 3.6 | Efficient-core boost frequency: 4.6 | Maximum number of DMI lanes: 8 | Maximum turbo power: 159 | Package type: Box | Performance cores: 6 | Performance-core base frequency: 4.2 | Performance-core boost frequency: 5.2 | Processor ARK ID: 241066 | Processor base power: 125 | Processor boost frequency: 5.2 | Processor cache: 24 | Processor cache type: Smart Cache | Processor codename: Arrow Lake | Processor cores: 14 | Processor family: Intel Core Ultra 5 | Processor generation: Intel Core Ultra (Series 2) | Processor manufacturer: Intel | Processor model: 245KF | Processor operating modes: 64-bit | Processor socket: LGA 1851 (Socket V1) | Stepping: B0 | AI software frameworks supported by NPU: DirectML/ONNX RT/OpenVINO/WebNN/Windows ML | Neural processor unit (NPU): Intel AI Boost | NPU performance up to: 13 | Sparsity support: Yes | Total processor performance up to: 22 | Windows Studio effects support: Yes | Maximum internal memory supported by processor: 192 | Memory channels: Dual-channel | Memory clock speeds supported by processor: 6400 | Memory types supported by processor: DDR5-SDRAM | Discrete graphics card: No | Discrete graphics card model: Not available | On-board graphics card: No | On-board graphics card model: Not available | Commodity Classification Automated Tracking System (CCATS): 740.17B1 | Direct Media Interface (DMI) Revision: 4.0 | Embedded options available: No | Execute Disable Bit: Yes | Export Control Classification Number (ECCN): 5A992C | Idle States: Yes | Market segment: Desktop | Maximum number of PCI Express lanes: 24 | PCI Express slots version: 4.0/5.0 | Scalability: 15 | Supported instruction sets: AVX 2.0/SSE4.1/SSE4.2 | Thermal Monitoring Technologies: Yes | Thermal solution specification: PCG 2020A | Use conditions: PC/Client/Tablet | Enhanced Intel SpeedStep Technology: Yes | Intel 64: Yes | Intel Trusted Execution Technology: 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 | Intel® AES New Instructions (Intel® AES-NI): Yes | Intel® Boot Guard: Yes | Intel® Control-flow Enforcement Technology (CET): Yes | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Intel® OS Guard: Yes | Intel® Secure Key: Yes | Intel® Speed Shift Technology: Yes | Intel® Standard Manageability (ISM): Yes | Intel® Thread Director: Yes | Intel® Thunderbolt 4: Yes | Intel® Turbo Boost Technology: 2.0 | Intel® Volume

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Management Device (VMD): Yes | Mode-based Execute Control (MBE): Yes | Maximum operating temperature: 105 | Harmonized System (HS) code: 8542310050 | Launch date: Q4'24 | Memory speed (max): 6400 | Status: Launched | L2 cache: 26624 | Maximum internal memory: 192 | CPU Family name: Intel Core Ultra | Model number: U5-245KF | Units per Shipping Box: 5 | Unit Calculated Volume: 0.00072 | Unit Calculated Weight: 0.106

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