

CPU INTEL Desktop Core Ultra U5-245K Arrow Lake 4200 MHz Cores 14 24MB Socket LGA1851 125 Watts BOX BX80768245KSRQCT

Model: BX80768245K S RQCT

Manufacturer: INTEL

EAN: 5032037282086

Product Code: 333042

R5,450

245K | 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 | On-board graphics card Yes | Market segment Desktop | Intel Core Ultra | U5-245K Summary: Intel Core Ultra 5 245K. 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:

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DirectML, OpenVINO, Windows ML, ONNX RT, WebNN, Total processor performance up to: 30 TOPs. Memory channels: Dual-channel, Maximum internal memory supported by processor: 192 GB, Memory types supported by processor: DDR5-SDRAM. On-board graphics card model: Intel Graphics, On-board graphics card outputs supported: DisplayPort 2.1, Embedded DisplayPort (eDP) 1.4b, 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 | Vendor Homepage: https://ark.intel.com/content/www/us/en/ark/products/241067/intel-core-ultra-5-processor-245k-24m-cache-up-to-5-20-ghz.html | Processor manufacturer: Intel | Processor generation: Intel Core Ultra (Series 2) | Processor model: 245K | 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 | Performance-core boost frequency: 5.2 | Performance-core base frequency: 4.2 | Efficient-core boost frequency: 4.6 | Efficient-core base frequency: 3.6 | Processor cache: 24 | Processor cache type: Smart Cache | Package type: Box | Cooler included: No | Maximum turbo power: 159 | Processor base power: 125 | AI software frameworks supported by CPU: DirectML/ONNX RT/OpenVINO/WebNN/Windows ML | Stepping: B0 | Maximum number of DMI lanes: 8 | Processor codename: Arrow Lake | Processor ARK ID: 241067 | Neural processor unit (NPU): Intel AI Boost | Sparsity support: Yes | Windows Studio effects support: Yes | AI software frameworks supported by NPU: DirectML/ONNX RT/OpenVINO/WebNN/Windows ML | Total processor performance up to: 30 | NPU performance up to: 13 | GPU performance up to: 8 | Maximum internal memory supported by processor: 192 | Memory types supported by processor: DDR5-SDRAM | Memory clock speeds supported by processor: 6400 | Memory channels: Dual-channel | ECC: Yes | Discrete graphics card: No | On-board graphics card: Yes | On-board graphics card model: Intel® Graphics | On-board graphics card outputs supported: DisplayPort 2.1/Embedded DisplayPort (eDP) 1.4b/HDMI 2.1 | On-board graphics card base frequency: 300 | On-board graphics card dynamic frequency (max): 1900 | 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 refresh rate at maximum resolution (DisplayPort): 60 | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 60 | On-board graphics card refresh rate at maximum resolution (HDMI): 60 | On-board graphics card ID: 0x7D67 | Discrete graphics card model: Not available | Xe-cores: 4 | Execute Disable Bit: Yes | Idle States: Yes | Thermal Monitoring Technologies: Yes | Market segment: Desktop | Use conditions: PC/Client/Tablet/Workstation | 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 | Direct Media Interface (DMI) Revision: 4.0 | Embedded options available: No | Scalability: 1S | Thermal solution specification: PCG 2020A | Export Control

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Classification Number (ECCN): 5A992C | Commodity Classification Automated Tracking System (CCATS): 740.17B1 | Enhanced Intel SpeedStep Technology: Yes | Intel Trusted Execution Technology: Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | Intel® Quick Sync Video Technology: Yes | Intel® Speed Shift Technology: Yes | Intel® Turbo Boost Technology: 2.0 | Intel® Thunderbolt 4: Yes | Intel® Control-flow Enforcement Technology (CET): Yes | Intel® Thread Director: Yes | Intel 64: 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® Active Management Technology (Intel® AMT): Yes | Intel® Boot Guard: Yes | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Intel® Deep Learning Boost (Intel® DL Boost) on GPU: Yes | Intel® One-Click Recovery: Yes | Intel® OS Guard: Yes | Intel® Remote Platform Erase (RPE): Yes | Intel® Secure Key: Yes | Intel® Stable IT Platform Program (SIPP): Yes | Intel® Standard Manageability (ISM): Yes | Intel® Virtualization Technology with Redirect Protection (VT-rp): Yes | Intel® Volume Management Device (VMD): Yes | Mode-based Execute Control (MBE): Yes | Intel vPro® Enterprise Platform Eligibility: Yes | Intel® Hardware Shield Eligibility: Yes | Intel® Threat Detection Technology (TDT): Yes | Intel® Total Memory Encryption - Multi Key: Yes | Maximum operating temperature: 105 | OpenCL version: 3.0 | Launch date: Q4'24 | Memory speed (max): 6400 | Status: Launched | Harmonized System (HS) code: 8542310050 | Graphics output: DP2.1 UHBR20, HDM2.1 FRL 12GHz, eDP1.4b | L2 cache: 26624 | Maximum internal memory: 192 | Unit Calculated Weight: 0.115 | Product Net Weight: 0.03 | Unit Calculated Volume: 0.0007488 | Units per Shipping Box: 5 | Unit Width: 10.2 | Units per Pallet: 0 | Shipping Box Height: 12 | Unit Depth: 11.6 | Unit Height: 4.5 | Name: CPU CORE U5-245K S1851 BOX/3.6G BX80768245K S RQCT IN | CPU Family name: Intel Core Ultra | Model number: U5-245K

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