

CPU INTEL
Desktop Intel
Core Ultra 5
250K Plus
18xCores Cache
30 MB Socket
FCLGA1851 GPU
Yes Box
BX80768250KSA4UZ



Model: BX80768250K S A4UZ

Manufacturer: INTEL

EAN: 5032037284752

Product Code: 311835

R5,401

Summary: Intel Core Ultra 5 250K Plus. Processor family: Intel Core Ultra 5, Processor socket: FCLGA1851, 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: 30 TOPs. Memory channels: Dual-channel, Maximum internal memory supported by processor: 256 GB, Memory types supported by processor: DDR5-SDRAM. On-board graphics card model: Intel® Graphics, On-board graphics card base frequency: 300 MHz, On-board graphics card

The product information provided is for reference purposes only. Technical specifications, photos, descriptions and prices may change without prior notice. The manufacturer and seller are not responsible for possible data discrepancies or typographical errors. We recommend checking the current information before purchasing.

dynamic frequency (max): 1900 MHz. Market segment: Desktop, Use conditions: Workstation, PC/Client/Tablet, PCI Express slots version: 4.0, 5.0 | Vendor Homepage: <https://www.intel.com/content/www/us/en/products/sku/245694/intel-core-ultra-5-processor-250k-plus-30m-cache-up-to-5-30-ghz/ordering.html> | AI software frameworks supported by CPU: DirectML/ONNX RT/OpenVINO/WebNN/Windows ML | Efficient cores: 12 | Efficient-core base frequency: 3.3 | 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: 5.3 | Processor ARK ID: 245694 | Processor base power: 125 | Processor boost frequency: 5.3 | Processor cache: 30 | Processor cache type: Smart Cache | Processor codename: Arrow Lake | Processor cores: 18 | Processor family: Intel Core Ultra 5 | Processor generation: Intel Core Ultra (Series 2) | Processor manufacturer: Intel | Processor model: 250K Plus | Processor operating modes: 64-bit | Processor socket: FCLGA1851 | Processor threads: 18 | AI software frameworks supported by NPU: DirectML/ONNX RT/OpenVINO/WebNN/Windows ML | GPU performance up to: 8 | Neural processor unit (NPU): Intel AI Boost | NPU performance up to: 13 | Sparsity support: Yes | Total processor performance up to: 30 | Windows Studio effects support: Yes | ECC: Yes | Maximum internal memory supported by processor: 256 | Memory channels: Dual-channel | Memory types supported by processor: DDR5-SDRAM | AI software frameworks supported by GPU: DirectML/ONNX RT/OpenVINO/WebGPU/Windows ML | AV1 encode/decode: Yes | Discrete graphics card: No | Discrete graphics card model: Not available | Hardware encode/decode codecs supported: H.264/H.265 (HEVC) | Number of displays supported (on-board graphics): 4 | On-board graphics card: Yes | On-board graphics card base frequency: 300 | On-board graphics card DirectX version: 12.0 | On-board graphics card dynamic frequency (max): 1900 | On-board graphics card ID: 0x7D67 | On-board graphics card maximum resolution (DisplayPort): 7680 x 4320 | On-board graphics card model: Intel® Graphics | 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): 120 | On-board graphics card refresh rate at maximum resolution (HDMI): 60 | Xe-cores: 4 | Direct Media Interface (DMI) Revision: 4.0 | Embedded options available: No | Execute Disable Bit: Yes | 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/Workstation | 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 vPro® Enterprise Platform Eligibility: Yes | Intel VT-x with Extended Page Tables (EPT): Yes |

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Intel® Active Management Technology (Intel® AMT): 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® Deep Learning Boost (Intel® DL Boost) on GPU: Yes | Intel® Hyper Threading Technology (Intel® HT Technology): No | Intel® One-Click Recovery: Yes | Intel® OS Guard: Yes | Intel® Quick Sync Video Technology: Yes | Intel® Remote Platform Erase (RPE): Yes | Intel® Secure Key: Yes | Intel® Speed Shift Technology: Yes | Intel® Stable IT Platform Program (SIPP): Yes | Intel® Standard Manageability (ISM): Yes | Intel® Thread Director: Yes | Intel® Threat Detection Technology (TDT): Yes | Intel® Thunderbolt 4: Yes | Intel® Total Memory Encryption - Multi Key: Yes | Intel® Turbo Boost Technology: 2.0 | Intel® Virtualization Technology with Redirect Protection (VT-rp): Yes | Intel® Volume Management Device (VMD): Yes | Intel® vPro™ Platform Eligibility: Yes | Mode-based Execute Control (MBE): Yes | Maximum operating temperature: 105 | Launch date: Q1'26 | OpenCL version: 3.0 | Status: Launched | Processor package size: 45 x 37.5 | Graphics output: eDP1.4b, DP 2.1 UHBR20, HDMI 2.1 FRL | L2 cache: 30720 | Maximum internal memory: 256 | Units per Pallet: 0 | Units per Shipping Box: 5 | Unit Calculated Volume: 0.00072 | Unit Calculated Weight: 0.106

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