Intel Core Ultra 5 250K Plus processor 30 MB Smart Cache Tray

Model: AT807683B9B4886

Manufacturer: INTEL

Product Code: 1740544

R4,984

AV1 encode/decode: Yes | AI software frameworks supported by GPU: OpenVINO | AI software frameworks supported by GPU: WebGPU | AI software frameworks supported by GPU: DirectML | AI software frameworks supported by GPU: Windows ML | AI software frameworks supported by GPU: ONNX RT | Discrete graphics card model: Not available | Maximum internal memory: 256 GB | Processor ARK ID: 245694 | Intel® Hyper Threading Technology (Intel® HT Technology): No | Intel® AES New Instructions (Intel® AES-NI): Yes | Intel 64: Yes | Execute Disable Bit: Yes | On-board graphics card model: Intel® Graphics | On-board graphics card DirectX version: 12.0 | OpenCL version: 3.0 | Intel® Quick Sync Video Technology: Yes | Processor socket: LGA 1851 (Socket V1) | Intel® Secure Key: Yes | On-board graphics card base frequency: 300 MHz | Processor codename: Arrow Lake | Processor package size: 45 x 37.5 mm | Processor family: Intel Core Ultra 5 | ECC: Yes | PCI Express slots version: 5.0 | PCI Express slots version: 4.0 | Intel Trusted Execution Technology: Yes | Processor threads: 18 | Supported instruction sets: SSE4.1 | Thermal Monitoring Technologies: Yes | Intel® OS Guard: Yes | Processor boost frequency: 5.3 GHz | Supported instruction sets: AVX

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2.0 | Supported instruction sets: SSE4.2 | Memory channels: Dual-channel | Processor model: 250K Plus | Idle States: Yes | Processor cores: 18 | Processor manufacturer: Intel | Embedded options available: No | Maximum internal memory supported by processor: 256 GB | Intel® Turbo Boost Technology: 2.0 | Processor cache: 30 MB | Discrete graphics card: No | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | Processor cache type: Smart Cache | On-board graphics card: Yes | Processor operating modes: 64-bit | Maximum number of PCI Express lanes: 24 | Intel VT-x with Extended Page Tables (EPT): Yes | Enhanced Intel SpeedStep Technology: Yes | Scalability: 1S | Intel® Boot Guard: Yes | Market segment: Desktop | On-board graphics card OpenGL version: 4.5 | Intel® Active Management Technology (Intel® AMT): Yes | On-board graphics card dynamic frequency (max): 1900 MHz | Number of displays supported (on-board graphics): 4 | Launch date: Q1'26 | Thermal solution specification: PCG 2020A | Status: Launched | On-board graphics card maximum resolution (DisplayPort): 7680 x 4320 pixels | L2 cache: 30720 KB | Mode-based Execute Control (MBE): Yes | Memory types supported by processor: DDR5-SDRAM | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Graphics output: eDP1.4b, DP 2.1 UHBR20, HDMI 2.1 FRL | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Intel® vPro™ Platform Eligibility: Yes | On-board graphics card ID: 0x7D67 | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | Intel® Speed Shift Technology: Yes | Intel® Thunderbolt 4: Yes | Xe-cores: 4 | Performance cores: 6 | Intel® Thread Director: Yes | Intel® Control-flow Enforcement Technology (CET): Yes | AI software frameworks supported by NPU: WebNN | AI software frameworks supported by NPU: Windows ML | GPU performance up to: 8 TOPs | Intel® Stable IT Platform Program (SIPP): Yes | Processor base power: 125 W | Hardware encode/decode codecs supported: H.264 | Hardware encode/decode codecs supported: H.265 (HEVC) | Processor generation: Intel Core Ultra (Series 2) | Efficient-core base frequency: 3.3 GHz | Maximum number of DMI lanes: 8 | NPU performance up to: 13 TOPs | Intel® Deep Learning Boost (Intel® DL Boost) on GPU: Yes | AI software frameworks supported by CPU: DirectML | Efficient-core boost frequency: 4.6 GHz | AI software frameworks supported by CPU: ONNX RT | Intel® Threat Detection Technology (TDT): Yes | Intel® One-Click Recovery: Yes | AI software frameworks supported by CPU: OpenVINO | AI software frameworks supported by CPU: WebNN | AI software frameworks supported by CPU: Windows ML | Performance-core boost frequency: 5.3 GHz | Direct Media Interface (DMI) Revision: 4.0 | Intel® Standard Manageability (ISM): Yes | AI software frameworks supported by NPU: OpenVINO | AI software frameworks supported by NPU: DirectML | AI software frameworks supported by NPU: ONNX RT | Windows Studio effects support: Yes | Intel® Volume Management Device (VMD): Yes | Sparsity support: Yes | Intel vPro® Enterprise Platform

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Eligibility: Yes | Maximum turbo power: 159 W | Performance-core base frequency: 4.2 GHz | Intel® Total Memory Encryption - Multi Key: Yes | Efficient cores: 12 | Neural processor unit (NPU): Intel AI Boost | Use conditions: PC/Client/Tablet | Use conditions: Workstation | Intel® Virtualization Technology with Redirect Protection (VT-rp): Yes | Intel® Remote Platform Erase (RPE): Yes | Total processor performance up to: 30 TOPs

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