

Intel Core Ultra 5 250K Plus processor with 18 cores



Model: BX80768250K

Manufacturer: INTEL

EAN: 5032037284738

Product Code: 1249694

R5,698

On-board graphics card DirectX version: 12.0 | Embedded options available: No | Processor boost frequency: 5.3 GHz | Enhanced Intel SpeedStep Technology: Yes | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Thermal Monitoring Technologies: Yes | Processor package size: 45 x 37.5 mm | Processor codename: Arrow Lake | Intel® Hyper Threading Technology (Intel® HT Technology): No | Processor family: Intel Core Ultra 5 | Processor model: 250K Plus | Maximum internal memory: 256 GB | Maximum number of PCI Express lanes: 24 | On-board graphics card model: Intel® Graphics | Discrete graphics card model: Not available | Processor cores: 18 | PCI Express slots version: 4.0 | PCI Express slots version: 5.0 | Processor threads: 18 | Intel® Turbo Boost Technology: 2.0 | Intel® Quick Sync Video Technology: Yes | OpenCL version: 3.0 | Intel VT-x with Extended Page Tables (EPT): Yes | Memory channels: Dual-channel | Intel® Remote Platform Erase (RPE): Yes | Status: Launched | On-board graphics card dynamic frequency (max): 1900 MHz | Number of displays supported (on-board graphics): 4 | Scalability: 1S | Idle States: Yes | On-board graphics card ID: 0x7D67 | Processor cache type: Smart Cache | Supported instruction sets: AVX 2.0 | Discrete graphics card: No | On-board graphics card: Yes | Intel® Secure Key: Yes | Execute Disable

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Bit: Yes | Intel® OS Guard: Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | Thermal solution specification: PCG 2020A | Supported instruction sets: SSE4.2 | Processor operating modes: 64-bit | Memory types supported by processor: DDR5-SDRAM | Supported instruction sets: SSE4.1 | Intel Virtualization Technology (VT-x): Yes | Processor ARK ID: 245694 | Processor cache: 30 MB | Maximum internal memory supported by processor: 256 GB | ECC: Yes | Intel Trusted Execution Technology: Yes | Processor manufacturer: Intel | Intel 64: Yes | Intel® Control-flow Enforcement Technology (CET): Yes | Processor socket: LGA 1851 (Socket V1) | On-board graphics card base frequency: 300 MHz | Performance-core base frequency: 4.2 GHz | Intel® Thread Director: Yes | Performance-core boost frequency: 5.3 GHz | Windows Studio effects support: Yes | Xe-cores: 4 | Efficient-core boost frequency: 4.6 GHz | NPU performance up to: 13 TOPs | Neural processor unit (NPU): Intel AI Boost | Processor base power: 125 W | AI software frameworks supported by NPU: WebNN | Performance cores: 6 | Efficient cores: 12 | AI software frameworks supported by NPU: DirectML | AI software frameworks supported by NPU: Windows ML | AI software frameworks supported by GPU: DirectML | AI software frameworks supported by NPU: ONNX RT | AI software frameworks supported by NPU: OpenVINO | AI software frameworks supported by CPU: OpenVINO | AI software frameworks supported by CPU: DirectML | AI software frameworks supported by CPU: ONNX RT | AI software frameworks supported by GPU: OpenVINO | AI software frameworks supported by GPU: WebGPU | Maximum turbo power: 159 W | AI software frameworks supported by CPU: Windows ML | AI software frameworks supported by GPU: ONNX RT | AI software frameworks supported by CPU: WebNN | Intel® Deep Learning Boost (Intel® DL Boost) on GPU: Yes | Total processor performance up to: 30 TOPs | AV1 encode/decode: Yes | AI software frameworks supported by GPU: Windows ML | GPU performance up to: 8 TOPs | Intel® Thunderbolt 4: Yes | Efficient-core base frequency: 3.3 GHz | Sparsity support: Yes | On-board graphics card maximum resolution (DisplayPort): 7680 x 4320 pixels | Intel® Active Management Technology (Intel® AMT): Yes | Graphics output: eDP1.4b, DP 2.1 UHBR20, HDMI 2.1 FRL | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Intel® vPro™ Platform Eligibility: Yes | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 120 Hz | Hardware encode/decode codecs supported: H.264 | Intel® Boot Guard: Yes | Launch date: Q1'26 | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Hardware encode/decode codecs supported: H.265 (HEVC) | Intel® Speed Shift Technology: Yes | Market segment: Desktop | L2 cache: 30720 KB | Intel® Volume Management Device (VMD): Yes | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | Mode-based Execute Control (MBE): Yes | Intel® Threat Detection Technology (TDT): Yes | Use conditions: PC/Client/Tablet | Use conditions: Workstation | On-board graphics card OpenGL version: 4.5 | Intel vPro® Enterprise Platform Eligibility: Yes | Intel® Standard

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Manageability (ISM): Yes | Direct Media Interface (DMI) Revision: 4.0 | Intel® Virtualization
Technology with Redirect Protection (VT-rp): Yes | Maximum number of DMI lanes: 8 | Intel® Stable
IT Platform Program (SIPP): Yes | Intel® One-Click Recovery: Yes | Processor generation: Intel Core
Ultra (Series 2) | Intel® Total Memory Encryption - Multi Key: Yes

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