



Intel Core Ultra 9 285 processor 36 MB Smart Cache Box



Model: BX80768285

Manufacturer: INTEL

EAN: 5032037282390

Product Code: 985688

R13,823

Status: Launched | Supported instruction sets: SSE4.2 | Supported instruction sets: SSE4.1 | On-board graphics card dynamic frequency (max): 2000 MHz | Supported instruction sets: AVX 2.0 | Number of displays supported (on-board graphics): 4 | Idle States: Yes | Launch date: Q1'25 | Intel 64: Yes | Scalability: 1S | Processor ARK ID: 241061 | Intel® Thermal Velocity Boost Frequency: 5.6 GHz | AI software frameworks supported by NPU: DirectML | On-board graphics card outputs supported: HDMI 2.1 | Intel® Deep Learning Boost (Intel® DL Boost) on CPU: Yes | Intel® Control-flow Enforcement Technology (CET): Yes | AI software frameworks supported by NPU: ONNX RT | Memory types supported by processor: DDR5-SDRAM | Intel® Turbo Boost Max Technology 3.0 frequency: 5.5 GHz | NPU performance up to: 13 TOPs | Execute Disable Bit: Yes | L2 cache: 40960 KB | AI software frameworks supported by NPU: WebNN | Box: Yes | Intel® Thermal Velocity Boost: Yes | AI software frameworks supported by CPU: DirectML | AI software frameworks supported by CPU: ONNX RT | Maximum internal memory supported by processor: 192 GB | Intel® Threat Detection Technology (TDT): Yes | Discrete graphics card: No | Intel® Boot Guard: Yes | AI software frameworks supported by CPU: WebNN | Intel® Hardware Shield Eligibility: Yes | OpenCL version: 3.0

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| AI software frameworks supported by NPU: OpenVINO | Intel® Volume Management Device (VMD): Yes | AI software frameworks supported by NPU: Windows ML | AI software frameworks supported by CPU: Windows ML | Intel® Deep Learning Boost (Intel® DL Boost) on GPU: Yes | AI software frameworks supported by CPU: OpenVINO | Intel® Thunderbolt 4: Yes | Intel® Active Management Technology (Intel® AMT): Yes | On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel): 60 Hz | Mode-based Execute Control (MBE): Yes | Performance-core boost frequency: 5.4 GHz | On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b | Processor generation: Intel Core Ultra (Series 2) | Intel® Stable IT Platform Program (SIPP): Yes | Total processor performance up to: 36 TOPs | Windows Studio effects support: Yes | Market segment: Desktop | On-board graphics card outputs supported: DisplayPort 2.1 | Graphics output: DP2.1 UHBR20, HDMI 2.1 FRL 12GHz, eDP1.4b | Intel® One-Click Recovery: Yes | Maximum number of DMI lanes: 8 | Performance cores: 8 | Performance-core base frequency: 2.5 GHz | Intel vPro® Enterprise Platform Eligibility: Yes | On-board graphics card refresh rate at maximum resolution (DisplayPort): 60 Hz | Use conditions: PC/Client/Tablet | Use conditions: Workstation | Direct Media Interface (DMI) Revision: 4.0 | Intel Turbo Boost Max Technology 3.0: Yes | Xe-cores: 4 | Intel® Standard Manageability (ISM): Yes | Intel® Thread Director: Yes | GPU performance up to: 8 TOPs | On-board graphics card ID: 0x7D67 | Warnings: Avoid contact with liquid. | Intel® Speed Shift Technology: Yes | Efficient cores: 16 | On-board graphics card OpenGL version: 4.5 | Warnings: Do not install on a switched-on device. | On-board graphics card refresh rate at maximum resolution (HDMI): 60 Hz | Neural processor unit (NPU): Intel AI Boost | Maximum turbo power: 182 W | Warnings: Protect against overheating. | Intel® Virtualization Technology with Redirect Protection (VT-rp): Yes | Processor base power: 65 W | On-board graphics card base frequency: 300 MHz | Intel® Remote Platform Erase (RPE): Yes | Intel® Total Memory Encryption - Multi Key: Yes | Sparsity support: Yes | Embedded options available: Yes | Maximum number of PCI Express lanes: 24 | Intel VT-x with Extended Page Tables (EPT): Yes | Intel® Secure Key: Yes | Intel Trusted Execution Technology: Yes | Processor cache: 36 MB | Enhanced Intel SpeedStep Technology: Yes | Intel Virtualization Technology for Directed I/O (VT-d): Yes | Intel Virtualization Technology (VT-x): Yes | PCI Express slots version: 4.0 | Processor family: Intel Core Ultra 9 | Discrete graphics card model: Not available | On-board graphics card: Yes | PCI Express slots version: 5.0 | Processor cache type: Smart Cache | On-board graphics card DirectX version: 12.0 | Processor manufacturer: Intel | Memory channels: Dual-channel | Processor cores: 24 | Processor threads: 24 | Maximum internal memory: 192 GB | Processor model: 285 | On-board graphics card model: Intel® Graphics | Processor codename: Arrow Lake | Intel® OS Guard: Yes | Intel® Turbo Boost Technology: 2.0 | Processor operating modes: 64-bit | Thermal

Monitoring Technologies: Yes | Intel® AES New Instructions (Intel® AES-NI): Yes | ECC: Yes | Intel®

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Quick Sync Video Technology: Yes | Processor socket: FCLGA1851 | Memory clock speeds supported by processor: 6400 MHz

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