

UPE | Compare Intel® Products

#####

,Intel® Core™ Ultra 7 Processor 265 (30M Cache- up to 5.30 GHz)

Essentials

Product Collection,Intel® Core™ Ultra Processors (Series 2)

Code Name,Products formerly Arrow Lake

Vertical Segment,Desktop

Processor Number,265

Overall Peak TOPS (Int8),33

CPU Specifications

Total Cores,20

of Performance-cores,8

of Efficient-cores,12

Total Threads,20

Max Turbo Frequency,5.3 GHz

Intel® Turbo Boost Max Technology 3.0 Frequency ‡,5.3 GHz

Performance-core Max Turbo Frequency,5.2 GHz

Efficient-core Max Turbo Frequency,4.6 GHz

Performance-core Base Frequency,2.4 GHz

Efficient-core Base Frequency,1.8 GHz

Cache,30 MB Intel® Smart Cache

Total L2 Cache,36 MB

Processor Base Power,65 W

Maximum Turbo Power,182 W

Intel® Deep Learning Boost (Intel® DL Boost) on CPU,Yes

AI Software Frameworks Supported by CPU,OpenVINO™ | WindowsML | DirectML | ONNX RT | WebNN

CPU Lithography,TSMC N3B

Supplemental Information

Marketing Status,Launched

Launch Date,Q1'25

Embedded Options Available,Yes

Use Conditions,PC/Client/Tablet | Workstation

Datasheet,View now

Memory Specifications

Max Memory Size (dependent on memory type),256 GB

Memory Types,Up to DDR5 6400 MT/s

Max # of Memory Channels,2

ECC Memory Supported ‡,Yes

GPU Specifications

GPU Name‡,Intel® Graphics

Graphics Base Frequency,300 MHz

Graphics Max Dynamic Frequency,1.95 GHz

GPU Peak TOPS (Int8),8

Graphics Output,DP2.1 UHBR20 | HDM2.1 FRL 12GHz | eDP1.4b

Xe-cores,4

Max Resolution (HDMI)‡,4K @ 60Hz (HDMI 2.1 TMDS) 8K @ 60Hz (HDMI2.1 FRL)

Max Resolution (DP)‡,8K @ 60Hz

Max Resolution (eDP - Integrated Flat Panel)‡,4K @ 60Hz

DirectX* Support,12

OpenGL* Support,4.5

OpenCL* Support,3

Intel® Quick Sync Video,Yes

of Displays Supported ‡,4

Device ID,0x7D67

Intel® Deep Learning Boost (Intel® DL Boost) on GPU,Yes

NPU Specifications

NPU Name‡,Intel® AI Boost

NPU Peak TOPS (Int8),13

Sparsity Support,Yes

Windows Studio Effects Support,Yes

AI Software Frameworks Supported by NPU,OpenVINO™ | WindowsML | DirectML | ONNX RT | WebNN

Expansion Options

Direct Media Interface (DMI) Revision,4

Max # of DMI Lanes,8

Intel® Thunderbolt™ 4,Yes

Scalability,1S Only

PCI Express Revision,5.0 and 4.0

PCI Express Configurations ‡,Up to 1x16+2x4 | 2x8+2x4 | 1x8+4x4

Max # of PCI Express Lanes,24

Package Specifications

Sockets Supported,FCLGA1851

Thermal Solution Specification,PCG 2022C

Max Operating Temperature,105 °C

Advanced Technologies

Intel® Volume Management Device (VMD),Yes

Intel® Gaussian & Neural Accelerator,3.5

Intel® Thread Director,Yes

Intel® Speed Shift Technology,Yes

Intel® Turbo Boost Max Technology 3.0 ‡,Yes
Intel® Turbo Boost Technology ‡,2.0
Intel® 64 ‡,Yes
Instruction Set,64-bit
Instruction Set Extensions,Intel® SSE4.1 | Intel® SSE4.2 | Intel® AVX2
Idle States,Yes
Enhanced Intel SpeedStep® Technology,Yes
Thermal Monitoring Technologies,Yes

Security & Reliability

Intel vPro® Eligibility ‡,Intel vPro® Enterprise
Intel vPro® Security Eligibility‡,Yes
Intel® Threat Detection Technology (TDT),Yes
Intel® Active Management Technology (AMT) ‡,Yes
Intel® Standard Manageability (ISM) ‡,Yes
Intel® Remote Platform Erase (RPE) ‡,Yes
Intel® One-Click Recovery ‡,Yes
Intel® Control-Flow Enforcement Technology,Yes
Intel® Total Memory Encryption - Multi Key,Yes
Intel® AES New Instructions,Yes
Secure Key,Yes
Intel® Trusted Execution Technology ‡,Yes
Execute Disable Bit ‡,Yes
Intel® OS Guard,Yes
Intel® Boot Guard,Yes
Mode-based Execute Control (MBEC),Yes
Intel® Stable IT Platform Program (SIPP),Yes
Intel® Virtualization Technology with Redirect Protection (VT-rp) ‡,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