ENGLISH Search Intel.com intel. **PRODUCTS** SUPPORT **FOUNDRY** SOLUTIONS DEVELOPERS PARTNERS Intel® Core™ Ultra 5 Processor 245 intel core: Intel® Core™ Ultra 5 Processor 245 ULTRA .. 5 24M Cache, up to 5.10 GHz Add To Compare Feedback **Specifications** Ordering & Compliance **Compatible Products** Download Specifications ↓ Essentials **Essentials CPU Specifications Product Collection** Intel® Core™ Ultra Processors (Series 2) Supplemental Information Code Name **Products formerly Arrow Lake Memory Specifications** Vertical Segment Desktop **GPU Specifications** Processor Number 3 245 **NPU Specifications** Overall Peak TOPS (Int8) 🔞 29 Recommended Customer Price 3 \$270.00 **Expansion Options CPU Specifications** Total Cores 3 14 # of Performance-cores # of Efficient-cores 8 Total Threads ③ 14 Max Turbo Frequency ? 5.1 GHz Performance-core Max Turbo Frequency ? 5.1 GHz Efficient-core Max Turbo Frequency ? 4.5 GHz Performance-core Base Frequency ? 3.5 GHz Efficient-core Base Frequency ? 3 GHz Cache ? 24 MB Intel® Smart Cache Total L2 Cache 26 MB Processor Base Power ③ 65 W Maximum Turbo Power 3 121 W Intel® Deep Learning Boost (Intel® DL Boost) on CPU Yes 3 Al Software Frameworks Supported by CPU OpenVINO™, WindowsML, DirectML, ONNX RT, WebNN CPU Lithography ? TSMC N3B Supplemental Information Launched Marketing Status Launch Date 3 Q1'25 Embedded Options Available 🔞 Yes Use Conditions 3 PC/Client/Tablet, Workstation Datasheet View now Memory Specifications Max Memory Size (dependent on memory type) ? 192 GB Memory Types ③ Up to DDR5 6400 MT/s Max # of Memory Channels 🔞 2 ECC Memory Supported \* ?? Yes **GPU Specifications** GPU Name<sup>†</sup> ③ Intel® Graphics Graphics Base Frequency ? 300 MHz Graphics Max Dynamic Frequency ? 1.9 GHz GPU Peak TOPS (Int8) ? 8 Graphics Output 3 DP2.1 UHBR20, HDM2.1 FRL 12GHz, eDP1.4b X<sup>e</sup>-cores 4 Max Resolution (HDMI)<sup>†</sup> ? 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 ③ 12 OpenGL\* Support ? 4.5 OpenCL\* Support ③ 3 Intel® Quick Sync Video 🔞 Yes # of Displays Supported <sup>†</sup> 4 Device ID 0x7D67 Intel® Deep Learning Boost (Intel® DL Boost) on GPU Yes 3 NPU Specifications NPU Name<sup>†</sup> Intel® Al Boost NPU Peak TOPS (Int8) 🔞 13 **Sparsity Support** Yes Windows Studio Effects Support Yes OpenVINO™, WindowsML, DirectML, ONNX RT, WebNN Al Software Frameworks Supported by NPU Expansion Options Direct Media Interface (DMI) Revision 4 Max # of DMI Lanes 8 Intel® Thunderbolt™ 4 🔞 Yes Scalability 1S Only PCI Express Revision 3 5.0 and 4.0 PCI Express Configurations \* ?? Up to 1x16+2x4, 2x8+2x4, 1x8+4x4 Max # of PCI Express Lanes 3 24 Package Specifications Sockets Supported ? FCLGA1851 Thermal Solution Specification 🔞 PCG 2022C 105 °C Max Operating Temperature ? Advanced Technologies Intel® Volume Management Device (VMD) ③ Yes Intel® Gaussian & Neural Accelerator 🔞 3.5 Intel® Thread Director 🔞 Yes Intel® Speed Shift Technology <a>?</a> Yes Intel® Turbo Boost Technology \* 3 2.0 Intel® 64 † 🔞 Yes Instruction Set ③ 64-bit Instruction Set Extensions 3 Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2 Idle States 🔞 Yes Enhanced Intel SpeedStep® Technology <? Yes Thermal Monitoring Technologies ③ Yes Security & Reliability Intel vPro® Eligibility \* ?? Intel vPro® Enterprise, Intel vPro® Platform Intel® Hardware Shield Eligibility \* ?? Yes Intel® Threat Detection Technology (TDT) Yes Intel® Active Management Technology (AMT) \* ? Yes Intel® Standard Manageability (ISM) \* 3 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 <a>?</a> Yes Secure Key 3 Yes Intel® Trusted Execution Technology \* 3 Yes Execute Disable Bit \* ? Yes Intel® OS Guard Yes Intel® Boot Guard 3 Yes Mode-based Execute Control (MBEC) <a>?</a> Yes Intel® Stable IT Platform Program (SIPP) 🔞 Yes Intel® Virtualization Technology with Redirect Yes Protection (VT-rp) <sup>‡</sup> Intel® Virtualization Technology (VT-x) \* ? Yes **Security & Reliability** All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. 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See www.intel.com/technology/turboboost/ for more information and applicability of this technology. Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS. Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update. 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