ENGLISH Search Intel.com intel. **DEVELOPERS PRODUCTS** SUPPORT **PARTNERS FOUNDRY** SOLUTIONS Intel® Core™ i3 processor 14100T **Edge Processors** Intel® Products Intel® Core™ i3 processor 14100T core 12M Cache, up to 4.40 GHz Add To Compare **Specifications** Ordering & Compliance **Compatible Products Downloads** Support Download Specifications ↓ Essentials **Essentials CPU Specifications** Intel® Core™ i3 Processors (14th gen) **Product Collection** Supplemental Information Code Name **Products formerly Raptor Lake Memory Specifications** Vertical Segment Desktop **GPU Specifications** Processor Number ③ i3-14100T **Expansion Options** Lithography 3 Intel 7 Recommended Customer Price 3 **Package Specifications CPU Specifications** Total Cores 3 # of Performance-cores # of Efficient-cores 0 Total Threads 3 8 Max Turbo Frequency ? 4.4 GHz Performance-core Max Turbo Frequency ? 4.4 GHz Performance-core Base Frequency ? 2.7 GHz Cache 3 12 MB Intel® Smart Cache Total L2 Cache 5 MB Processor Base Power ③ 35 W Maximum Turbo Power 3 69 W Supplemental Information Marketing Status Launched Launch Date 3 Q1'24 Embedded Options Available 🔞 Yes Use Conditions ③ PC/Client/Tablet Datasheet View now Memory Specifications Max Memory Size (dependent on memory type) ? 192 GB Memory Types 3 Up to DDR5 4800 MT/s Up to DDR4 3200 MT/s Max # of Memory Channels ? 2 Max Memory Bandwidth 🔞 76.8 GB/s **GPU** Specifications GPU Name<sup>‡</sup> ③ Intel® UHD Graphics 730 Graphics Max Dynamic Frequency ? 1.5 GHz Graphics Output 3 eDP 1.4b, DP 1.4a, HDMI 2.1 Execution Units 3 24 Max Resolution (HDMI)<sup>†</sup> ? 4096 x 2160 @ 60Hz Max Resolution (DP)‡ ③ 7680 x 4320 @ 60Hz Max Resolution (eDP - Integrated Flat Panel)‡ 🔞 5120 x 3200 @ 120Hz DirectX\* Support ③ 12 OpenGL\* Support ? 4.5 OpenCL\* Support ③ 3.0 Multi-Format Codec Engines 🔞 1 Intel® Quick Sync Video 🔞 Yes Intel® Clear Video HD Technology 🔞 Yes # of Displays Supported <sup>†</sup> 4 Device ID 0x4692 **Expansion Options** Direct Media Interface (DMI) Revision 4.0 Max # of DMI Lanes 8 Scalability 1S Only PCI Express Revision ? 5.0 and 4.0 PCI Express Configurations \* ?? Up to 1x16+4, 2x8+4 Max # of PCI Express Lanes ? 20 Package Specifications Sockets Supported ? FCLGA1700 Max CPU Configuration Thermal Solution Specification 3 PCG 2020D T<sub>JUNCTION</sub> ③ 100°C Package Size 45.0 mm x 37.5 mm Max Operating Temperature ? 100 °C Advanced Technologies Intel® Volume Management Device (VMD) ③ Yes Intel® Gaussian & Neural Accelerator 3 3.0 Intel® Deep Learning Boost (Intel® DL Boost) on CPU Yes Intel® Speed Shift Technology ③ Yes

Feedback

Intel® 64 † 3 Instruction Set 3 Instruction Set Extensions 3 Idle States 🔞

Intel® Turbo Boost Technology \* 3

Intel® Hyper-Threading Technology \* 3

Enhanced Intel SpeedStep® Technology ③

Thermal Monitoring Technologies ③

Intel® Standard Manageability (ISM) \* 3

Mode-based Execute Control (MBEC) 🔞

Intel® Virtualization Technology (VT-x) \* 3

Intel® Virtualization Technology for Directed I/O (VT-d)

Intel® VT-x with Extended Page Tables (EPT) \* ?

Intel® Control-Flow Enforcement Technology 🔞

Security & Reliability

Intel® AES New Instructions <a>?</a>

Secure Key 3

Intel® OS Guard

<sup>‡</sup> ③

Execute Disable Bit \* ?

Intel® Boot Guard ②

2.0

Yes

64-bit

Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2

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‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which processors

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benefits of this feature may vary depending on system configuration.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability. Intel® Arc™ graphics only available on select V-Series Intel® Core™ Ultra processor-powered systems with qualifying system thermal design or H-series Intel® Core™ Ultra processor-powered systems with at least 16GB of system memory in a dual-channel configuration. OEM enablement required. Other Intel® Core™ Ultra processor-powered system configurations feature Intel® Graphics. Check with OEM or retailer for system configuration details.

Intel® Iris® Xe Graphics only: to use the Intel® Iris® Xe brand, the system must be populated with 128-bit (dual channel) memory. Otherwise, use the Intel® UHD brand.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information and applicability of this technology.

support Intel® HT 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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