

Intel® Core™ Processors

Deliver powerful, flexible edge innovations, faster

Intel® Core™ processors power AI and compute-intensive use cases at the edge – with tailored performance, high-performing graphics capabilities, flexible LGA designs, and long-life availability and support.

Get more choices for tailored performance at the edge.

Intel® Core™ processors feature options with up to 24 cores, and P-core turbo frequency of up to 5.6 GHz.

Help build what you need for compute-intensive AI, data processing, multitasking, and more – all optimized for performance at the edge.

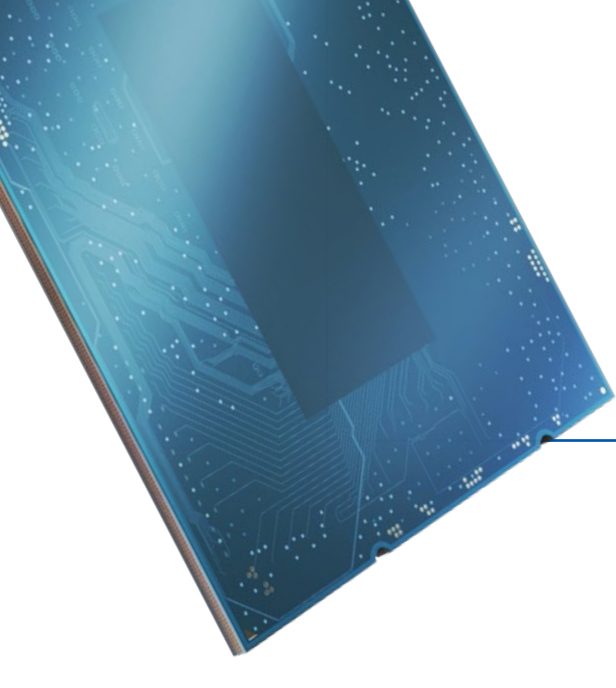


Unlock performance for AI at the edge with Intel® Core™ processors

Tailor Performance for Versatile Edge Computing Demands

Intel® Core™ processors offer a range of performance options for AI and diverse workloads at the edge, with up to 8 P-cores and 16 E-cores.

Handle compute-heavy workloads with a P-core frequency of up to 5.6GHz, up to 200 MHz faster than the previous generation. Innovate for diverse use cases with up to 48 PCIe lanes for more accelerators, peripherals, and sensors.



Enable Rich Graphics and Media Experiences

Intel® Core™ processors bring robust graphics capabilities to the socketed edge platform, across many use cases. Integrated Intel® Graphics supports a range of visually engaging experiences, from smooth video wall synchronization to detailed user interfaces, enabled by Intel® Xe architecture, Pipelock, Genlock, 8K HDR support, and more.



Accelerate Time to Market and Extend Longevity

Intel® Core™ processors are built to help expedite product development and time-to-market with LGA-compatible designs while facilitating faster, easier upgrades with backwards compatibility for 12th, 13th, and 14th Gen Intel® Core™ processors. Extend support and reliability with up to 10 years of availability¹ and Windows 10 IoT Enterprise LTSC 2021 & Windows 11 IoT Enterprise LTSC 2024.

¹ Intel does not commit or guarantee product availability or software support by way of road map guidance. Intel reserves the right to change road maps or discontinue products, software, and software support services through standard EOL/PDN processes. Contact your Intel account rep for additional information.



Up to
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Deliver powerful, flexible edge innovations, faster

Retail, banking, education, hospitality

Easily deploy numerous edge devices with a top-to-bottom development, and powerful compute heads with support data generation and analysis. Pin compatibility with previous generations, help reduce product development time and cost.



Industrial

Support Industry 4.0 use cases such as AI automation, robotics, and real-time control on the factory floor. Manufacturers can benefit from more consistency, predictability, and safety while driving higher output and overall equipment effectiveness.

Healthcare

Deliver exceptional performance and responsiveness for data-intensive use cases at the medical edge. This platform supports detail-rich displays to help clinicians with AI-assisted workflows and can help meet power and efficiency limitations for devices in and around hospital environments.



Cities, Government and critical infrastructure

Process and store more data for more video streams compared to prior gen, in smart city use cases while delivering integrated graphics to support edge inference in hard-to-reach places.



intel
CORE

Unlock performance for AI at the edge.
Learn more about the Intel® Core™ Processors (Series 2) at XXXX

Notices and disclaimers

¹Intel® Hyper-Threading Technology, Intel® Turbo Boost Max Technology 3.0, and Intel® Thermal Velocity Boost are only available on Performance-cores.

²Performance hybrid architecture combines two core microarchitectures, Performance-cores (P-cores) and Efficient-cores (E-cores), on a single processor die first introduced on 12th Gen Intel® Core™ processors. Select 12th Gen and newer Intel® Core™ processors do not have performance hybrid architecture, only P-cores or E-cores, and may have the same cache size.

See ark.intel.com for SKU details, including cache size and core frequency.

³Socket compatible with 12th and 13th Gen Intel® Core™ processors for edge.

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⁵Support for Intel® Thread Director is expected in Windows 11 IoT Enterprise LTSC.

⁶Available on select SKUs.

⁷Performance varies by use, configuration, and other factors. Learn more at intel.com/processor claims: Intel® Core™ processors (14th Gen), Edge. Results may vary.

Availability of accelerators varies depending on SKU. Visit the Intel® Product Specifications page for additional product details. Performance varies by use, configuration, and other factors.

Learn more at intel.com/Performance Index.

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.

Your costs and results may vary. Intel® technologies may require enabled hardware, software, or service activation. Intel is committed to respecting human rights and avoiding complicity in human rights abuses. See Intel Global Human Rights Principles. Intel® products and software are intended only to be used in applications that do not cause or contribute to a violation of an internationally recognized human right.

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