

Deploy faster edge AI and advanced graphics with LGA flexibility

Intel® Core™ Processors combine graphics and AI performance at the edge in LGA packaging.



Maximize edge scalability and enable advanced graphics and AI inferencing performance with Intel® Core™ processors. These LGA socket CPUs deliver up to 14 cores (6P+8E), 20 threads, and 96 graphics execution units¹ to support your demanding edge workloads. Take advantage of faster single thread performance, faster GPU inference, accelerated media and graphics capabilities, and our performance hybrid architecture² with Intel® Thread Director³ to unlock new possibilities with your edge designs.



¹ Available on select SKUs.

² Performance 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. See ark.intel.com for SKU details, including cache size and core frequency.

³ Built into the hardware, Intel® Thread Director is provided only in performance hybrid architecture configurations of 12th Gen or newer Intel® Core™ processors; OS enablement is required. Available features and functionality vary by OS.

Intel® Core™ Processors

Up to

2.57x

(estimate)
the graphics performance⁴

vs 13th Gen Intel® Core™ desktop processor⁴

⁴ Performance varies by use, configuration, and other factors. Learn more at intel.com/processorclaims: Intel® Core™ processors, Edge. Results may vary.

AI acceleration, graphics performance, and LGA flexibility

Accelerate edge AI

Power advanced edge AI applications with an LGA socket CPU that offers enhanced performance in up to 14 cores and 20 threads alongside 96 graphics execution units (EUs).⁵



Power advanced visual workloads

Meet the demands of engaging, immersive visual workloads with Intel® Graphics with up to 96 graphics EUs.⁵ Power advanced digital signage and kiosk applications for a seamless video experience.



Built for edge flexibility

Leverage LGA socket flexibility for adaptable platforms, confidently plan with long-life availability, and ease upgrades with pin compatibility to previous-gen processors.



⁵ Available on select SKUs.

Enable edge AI and graphics performance without compromising flexibility



Retail and hospitality

Enable next-generation experiences with powerful graphics, AI to support rich in-store analytics or kiosk interactivity, and robust video-wall capabilities, including Pipelock, bezel correction, and extended display identification data

Digital signage, interactive kiosks, in-store analytics, POS

Smart cities and infrastructure

Rely on a powerful system-on-chip (SoC) to bring intelligence and analytics to the smart city edge more cost-effectively

License plate recognition, traffic management, crowd management



Education and enterprise

Power engaging classroom experiences with advanced integrated graphics capabilities to deliver the dynamic and rich experiences that today's learners expect

Interactive whiteboards, thin clients, remote classrooms

Industrial

Enhance productivity and safety on shop floors, and support advanced Industry 4.0 use cases, while consolidating workloads on easy-to-manage systems in harder-to-reach places

AI-augmented industrial PC for discrete and process manufacturing, microgrid controller, robotics management



It's time to unlock new possibilities with your edge designs.

Learn more about the PS series of Intel® Core™ Processors at intel.com/core-ps

Learn more about the PS series of Intel® Core™ Processors at intel.com/core-ps



Notices and disclaimers

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.

Performance varies by use, configuration, and other factors. Learn more at intel.com/PerformanceIndex.

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.

Intel® processors of the same SKU may vary in frequency or power as a result of natural variability in the production process.

All product plans and road maps are subject to change without notice.

Statements in this document that refer to future plans or expectations are forward-looking statements. These statements are based on current expectations and involve many risks and uncertainties that could cause actual results to differ materially from those expressed or implied in such statements. For more information on the factors that could cause actual results to differ materially, see our most recent earnings release and SEC filings at intc.com.

Code names are used by Intel to identify products, technologies, or services that are in development and not publicly available. These are not "commercial" names and are not intended to function as trademarks.

Not all features are available on all SKUs.

Not all features are supported in every operating system.

Intel may change availability of products and support at any time without notice. All product plans are subject to change without notice.

Your costs and results may vary.

Intel® technologies may require enabled hardware, software, or service activation.

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

Built into the hardware, Intel® Thread Director is provided only in performance hybrid architecture configurations of 12th Gen or newer Intel® Core™ processors; OS enablement is required. Available features and functionality vary by OS.

© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.