Deploy faster edge AI and advanced graphics with LGA flexibility

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

intel CORE

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 units[1] 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 architecture[2] with Intel® Thread Director[3] to unlock new possibilities with your edge designs.

intel CORE

[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 performance[4]

vs 13th Gen Intel® Core™ desktop processor[4]

[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

AI

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 experiences 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

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