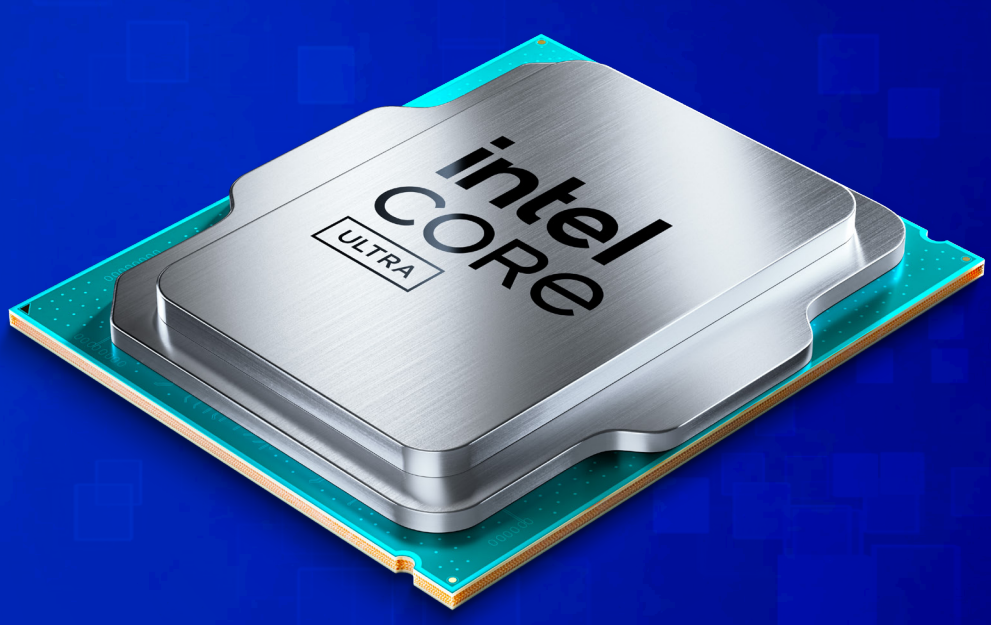
PS Series of Intel® Core™ Ultra processors

Unleash edge versatility and handle demanding AI and graphics workloads

Deliver new levels of performance and efficiency with the latest power-efficient Intel® Core™ Ultra Processors.

Power up your competitiveness with the Intel® Core™ Ultra processor, a purpose-built platform for the advanced AI workloads that organizations need now. The versatile LGA socket–based SoC houses multiple compute engines that work together to accelerate inference at the edge. This unique architecture reduces the need for a discrete accelerator, simplifying system design and reducing cost.



Intel® Core™ Ultra Processors

Up to **3.13x** the graphics performance

Up to **5.02x** faster in GPU image classification inference performance

Up to **3.85x** faster in GPU object detection inference performance

vs Intel® Core™ desktop processor (14th Gen)[1]

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

AI-ready CPU, GPU, and NPU enhancements

Incredible AI for the edge

Take on challenging AI workloads at the edge with multiple compute engines working together: P-cores, E-cores, Intel® Arc ™ GPU,[2] and an integrated NPU called Intel® AI Boost.[3]

The latest innovations in graphics and media

Get built-in Intel® Arc™ GPU[2]—which is as powerful as entry-level discrete graphics—plus up to two 8K displays, 8K encode/decode, full hardware AV1 encode/decode, HDMI 2.1, Pipelock, bezel correction, and lock display.

Power-efficient design in an LGA package

Drive LGA solutions into efficient space-constrained designs with built-in graphics and AI engines, enabling smaller form factors and fanless designs.

[2] Intel® Arc™ GPU only available on select HL Series, Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configuration. OEM enablement required; check with OEM for system configuration details.

[3] Intel® AI Boost enablement limited at launch.

Unleash edge versatility and handle demanding AI and graphics workloads

Retail and hospitality

Drive computer vision and Generative AI with powerful AI engines, support POS solutions, and deploy high-resolution displays for interactive kiosks and digital signage

POS/kiosks, self-checkout, digital signage, restaurant automation

Smart cities and infrastructure

Improve quality of life, safety, and solution efficiency, process and analyze larger datasets, stay in the field for longer, and address ever-increasing growth

Automatic license plate recognition, AI-powered network video recorders, roadside units

Education and enterprise

Support interactive whiteboards, personalized learning and seamless videoconferencing for in-classroom, remote, and hybrid environments

Videoconferencing, interactive whiteboards, thin clients, and remote classrooms or distributed workforce

Industrial

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

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

Start innovating at the edge today.

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