

Accelerate Edge Workloads with Built-In AI and Security

5th Gen Intel® Xeon® Scalable processors unlock new opportunities at the edge.



Achieve incredible performance for demanding, emerging AI and edge workloads. 5th Gen Intel® Xeon® Scalable processors boost AI performance and energy efficiency, improve operational efficiencies, and enable confidential computing in edge deployments.

5th Gen Intel® Xeon® Scalable processors

Up to
1.59x

average performance gain¹

Up to
1.29x

average performance-per-watt gain²

Up to
2.81x

higher real-time inference performance for image classification³

Up to
5.28x

higher real-time inference performance for object detection⁴

vs. 3rd Gen Intel® Xeon® Gold 6348 processors

For workloads and configurations, visit intel.com/processorclaims: 5th Gen Intel® Xeon® Scalable processors. Results may vary.

Explore advanced edge capabilities



Faster AI inferencing

Support for Intel® Distribution of OpenVINO™ toolkit, Intel® AMX, and Intel® Data Center GPU Flex Series



Energy efficient and performant

Optimized Power Mode and low-power SKUs advance sustainability goals while integrated accelerators⁵ and faster memory speeds boost compute performance



Built-in trust for enhanced confidential computing

Intel® Software Guard Extensions, Intel® Trusted Domain Extensions, and Intel® Platform Firmware Resilience



Extended availability⁶ and long-life reliability SKUs⁷

Drive ROI with systems that will endure in the field for many years

Incredible performance and energy efficiency across emerging use cases



Healthcare and life sciences

Improve medical imaging accuracy, enable faster scan results, and enhance the security of patient data

Medical imaging, genomics, biomedical manufacturing, digital pathology, health IT

Industrial and energy

Help support the integration of renewables, build a data-driven power grid, and consolidate automation hardware

Digital twins, test and measurement devices, PLC virtualization in process and discrete manufacturing, virtual protection relay for energy substations



Retail

Provide frictionless shopping journeys and power-efficient AI video analytics in a variety of store environments

Frictionless retail solutions, vision checkout, transactional back-end servers, VDI servers, and micro fulfillment centers

Learn more about 5th Gen Intel Xeon Scalable processors.

Visit **XENON RADON Intel Servers**.

XENON Systems is an Intel® Authorized System Integrator.

Customize your server build today. [Click here.](#)

XENON®
High Performance Computing

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Notices and disclaimers

1. See [E1] at intel.com/processorclaims: 5th Gen Intel® Xeon® Scalable processors. Results may vary.

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3. See [E3] at intel.com/processorclaims: 5th Gen Intel® Xeon® Scalable processors. Results may vary.

4. See [E4] at intel.com/processorclaims: 5th Gen Intel® Xeon® Scalable processors. Results may vary.

5. Available on select SKUs.

6. Intel does not commit to 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.

7. SKUs with long product use life (up to 10 years, up to 100 percent active, no turbo) – Industrial-commercial temperature use condition.

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/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.

Your costs and results may vary.

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