

# 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 gain<sup>1</sup>

Up to **1.29x** average performance-per-watt gain<sup>2</sup>

Up to **2.81x** higher real-time inference performance for image classification<sup>3</sup>

Up to **5.28x** higher real-time inference performance for object detection<sup>4</sup>

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

For workloads and configurations, visit [intel.com/processorclaims](https://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 accelerators<sup>5</sup> 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 availability<sup>6</sup> and long-life reliability SKUs<sup>7</sup>

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

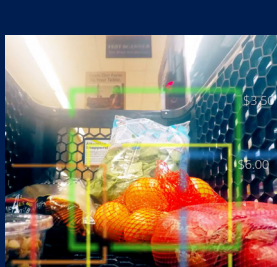
Improve medical imaging accuracy, enable faster scan results, and enhance the security of patient data

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

Support important AI workloads at the edge with incredible performance, energy efficiency, and confidential computing.

Learn more about 5th Gen Intel® Xeon® Scalable processors at [intel.com/5thgenxeon-edge](https://intel.com/5thgenxeon-edge).



#### Notices and disclaimers

1. See [E1] at [intel.com/processorclaims](https://intel.com/processorclaims): 5th Gen Intel® Xeon® Scalable processors. Results may vary.  
 2. See [E2] at [intel.com/processorclaims](https://intel.com/processorclaims): 5th Gen Intel® Xeon® Scalable processors. Results may vary.  
 3. See [E3] at [intel.com/processorclaims](https://intel.com/processorclaims): 5th Gen Intel® Xeon® Scalable processors. Results may vary.  
 4. See [E4] at [intel.com/processorclaims](https://intel.com/processorclaims): 5th Gen Intel® Xeon® Scalable processors. Results may vary.  
 5. Available on select SKUs.  
 6. 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.  
 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](https://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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