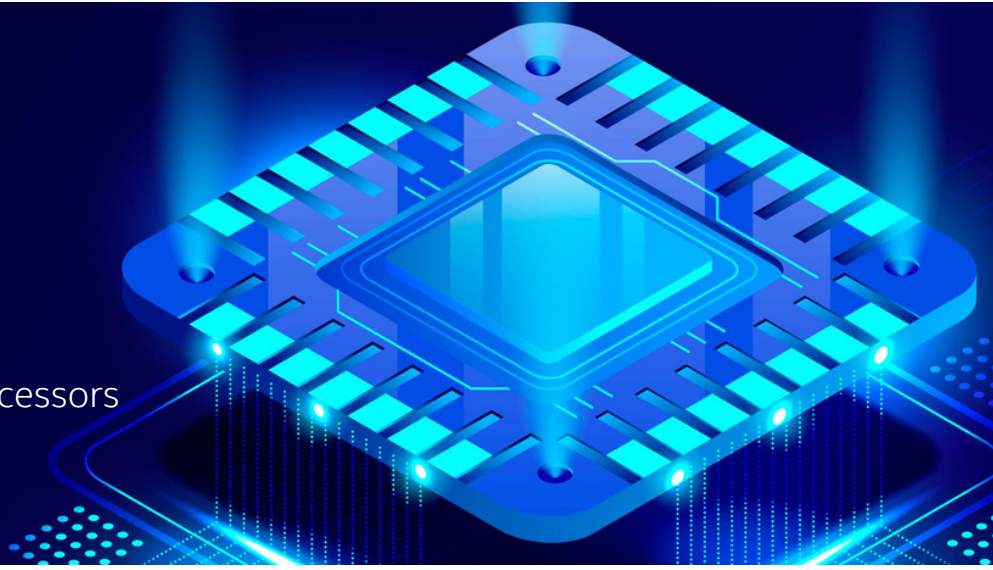


Faster AI performance at the edge

4th Gen Intel® Xeon® Scalable processors move business forward



Accelerate the most advanced workloads for video analytics, object detection, and machine learning with the latest 4th Gen Intel® Xeon® Scalable processors.

It's now more critical than ever for technology to deliver business value as organizations look to scale, drive down costs, and deliver new services. Instead of customizing systems for new applications, which can add complexity, enterprises can achieve the performance needed to meet a wide variety of deployments—both today and in the future—with a scalable platform.

4th Gen Intel® Xeon® Scalable processors feature Intel® Accelerator Engines designed to accelerate performance across the fastest-growing workloads. These processors have the most built-in accelerators of any CPU on the market to help improve performance efficiency for emerging workloads, especially those powered by AI.¹

In addition to performance improvements, 4th Gen Intel Xeon Scalable processors have advanced security technologies to help protect data in an ever-changing landscape of threats while unlocking new opportunities for business insights.

Intel makes it easier for enterprises to stay competitive, offering the most choice to scale infrastructure and quickly achieve business value.

70%

of data center AI inferencing runs on Intel Xeon processors²

Up to

10X higher

PyTorch performance for both real-time inference and training workloads with built-in Intel AMX BF16 vs. prior generation with FP32³

Up to

6.2X higher

real-time NLP inference performance (BERT) on 4th Gen Intel Xeon Platinum 8480+ with Intel Xeon AMX BF16 vs. prior generation with FP32³

MARKET OPPORTUNITY

AI: Ready to Solve Problems and Revolutionize Industries

Enterprises are implementing AI solutions that unlock more business value in a cost-effective way, and AI is transforming the way that business problems are being solved.



HEALTH AND LIFE SCIENCES

Medical imaging technologies, such as MRI and CT scanners, use AI in assisting practitioners to make accurate patient diagnoses quickly.



MANUFACTURING

AI in auto manufacturing accelerates defect detection on the assembly line, enhancing quality control with machine learning.



FINANCIAL SERVICES

AI streamlines credit checks, risk, and fraud management, and powers chatbots, algo-trading, and RPA.



RETAIL

AI in retail streamlines inventory tracking, cuts losses, saves time, and analyzes shopper behavior for better experiences.



SAFETY AND SECURITY

AI vision at the edge identifies employee safety issues such as spills, slips, falls,, and health risks to prompt preventive and corrective measures.



TRANSPORTATION

AI aids urban planners in traffic analysis, vehicle incidents, and pedestrian safety for smarter city management.

KEY SALES INSIGHTS

Solve Budget, Development, and Scalability Challenges

4th Gen Intel Xeon Scalable processors offer integrated acceleration features enable you to remove common AI roadblocks without compromising performance.



Reduce Hardware Costs

Spend less to enable AI. Intel® AI Engines empower you to run training and inferencing workloads without investing in discrete accelerators.



Improve Energy Efficiency

Lower energy costs and the environmental impact of AI with energy-efficient CPUs. Built-in accelerator engines significantly improve performance per watt to help reduce power consumption.



Simplify Deployment

Avoid complexity introduced by specialized hardware and minimize the need for code changes. Plus, take advantage of industry-standard developer resources to accelerate your time to solution.

NEXT STEPS

Unlock AI Business Potential with Intel and TD SYNnex

4th Gen Intel Xeon Scalable processors stand at the forefront of AI innovation, providing unparalleled capabilities specifically designed to meet the demands of today's complex AI tasks. These processors deliver dedicated AI acceleration, advanced neural network performance, and a significant boost in data analytics speed—key advantages for industries aiming to leverage AI for a competitive edge.

Reach out to TD SYNnex for a deeper dive into the benefits of these processors. The TD SYNnex Intel team team is equipped with the knowledge and resources to support you in identifying the ideal AI solutions that align with your customers' unique objectives. Leverage our expertise to confidently recommend and implement the 4th Gen Intel Xeon Scalable processors, ensuring your customers are fully equipped to navigate the AI landscape effectively.

Legal

¹Intel. Intel® Accelerator Engines web page. intel.com/content/www/us/en/products/docs/accelerator-engines/overview.html.

²Based on Intel market modeling of the worldwide installed base of data center servers running AI inference workloads as of December 2021.

³ See [A16] and [A17] at intel.com/processorclaims: 4th Gen Intel Xeon Scalable processors. Results may vary