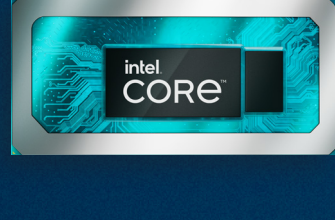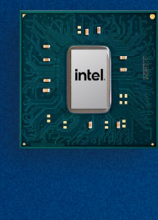# intel CORE

Meet the newest member of the family

12th Gen Intel® Core™ processors for IoT edge

More choices, new possibilities

Desktop
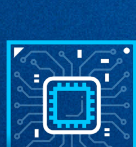35W–65W
processor base power

New SoC
15W–45W
processor base power

Mobile
15W–45W
processor base power

Integrated graphics and mobile power consumption in a compact design

Multichip package (MCP) in an LGA socket
Mobile processor performance profile in an **LGA** package

Socket flexibility for **build to order**

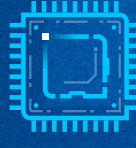**Simplify** supply chain and inventory management

Optimized for IoT applications
Decode up to **48** simultaneous 1080p streams

Up to **96** execution units (EUs)

Four 4K displays or **one 8K** display

Power efficiency meets higher bandwidth
Up to **eight** PCIe 4.0 lanes

Four Thunderbolt™ 4/USB4 lanes

Up to **DDR5-4800** memory

Ready for deep learning AI
CPU and iGPU for inference workloads

Intel® Deep Learning Boost accelerates inference

Fully supported by Intel® Distribution of **OpenVINO™** toolkit

Performance hybrid architecture[1]

Up to **6** Performance-cores

Up to **8** Efficient-cores

Intel® Thread Director[2]

Major gains over 10th Gen Intel® Core™ desktop processors[3]

Up to
1.32x
faster single-thread performance[3]

Up to
4x
faster graphics performance[3]

Up to
1.27x
faster multithread performance[3]

Up to
6.6x
higher GPU image classification performance[3]

Deliver more capabilities on a leaner power budget

Retail
All-in-one, smart POS with rich displays and video analytics

Education and hospitality
Interactive flat panel displays (IFPDs) for classrooms, wayfinding, and kiosks

Healthcare
Ultrasound imaging, medical carts, endoscopy, and clinical devices

Safety and security
Network video recorder with AI box

Learn more about 12th Gen Intel® Core™ processors for IoT edge

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