Meetrigorous lo T de mands with processors enhancedforloT

11th Gen Intel® Core™ Processors

intel®

CORE

intel® CORE



By 2025, 55.6% of all data will come from lo T devices¹

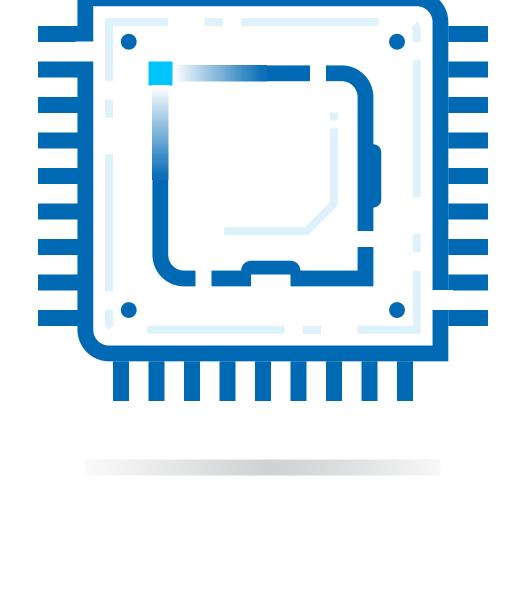
To address the processing needs of this new loT-enabled future, we've developed the 11th Gen Intel® Core™ Processors.

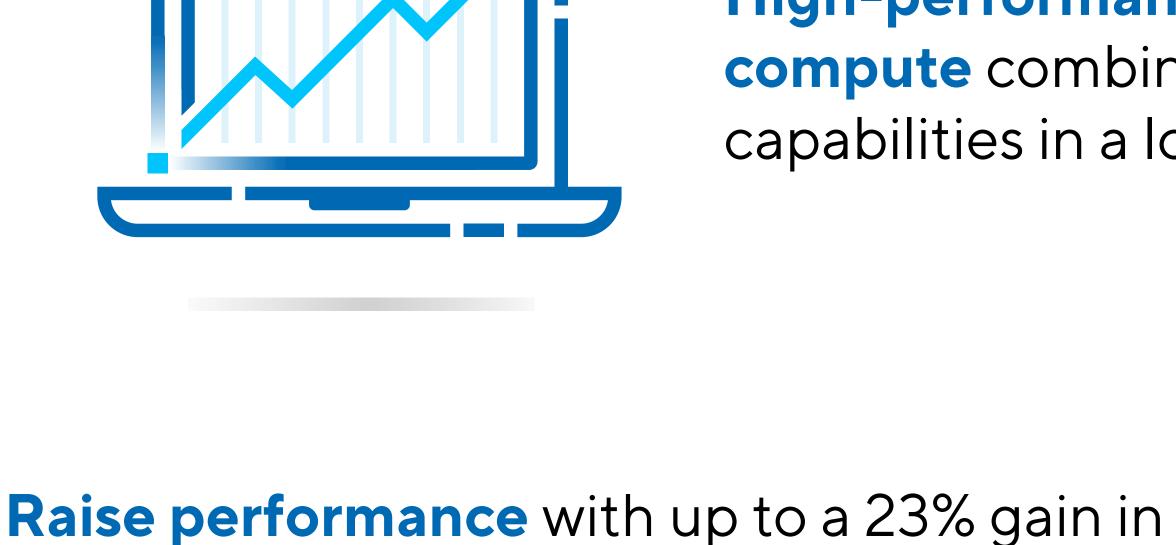
HIGHLIGHTS

enhanced specifically for critical IoT applications that demand high-speed processing, computer vision, and

Built on third-generation, 10 nm microarchitecture

low-latency deterministic computing





capabilities in a low-power platform

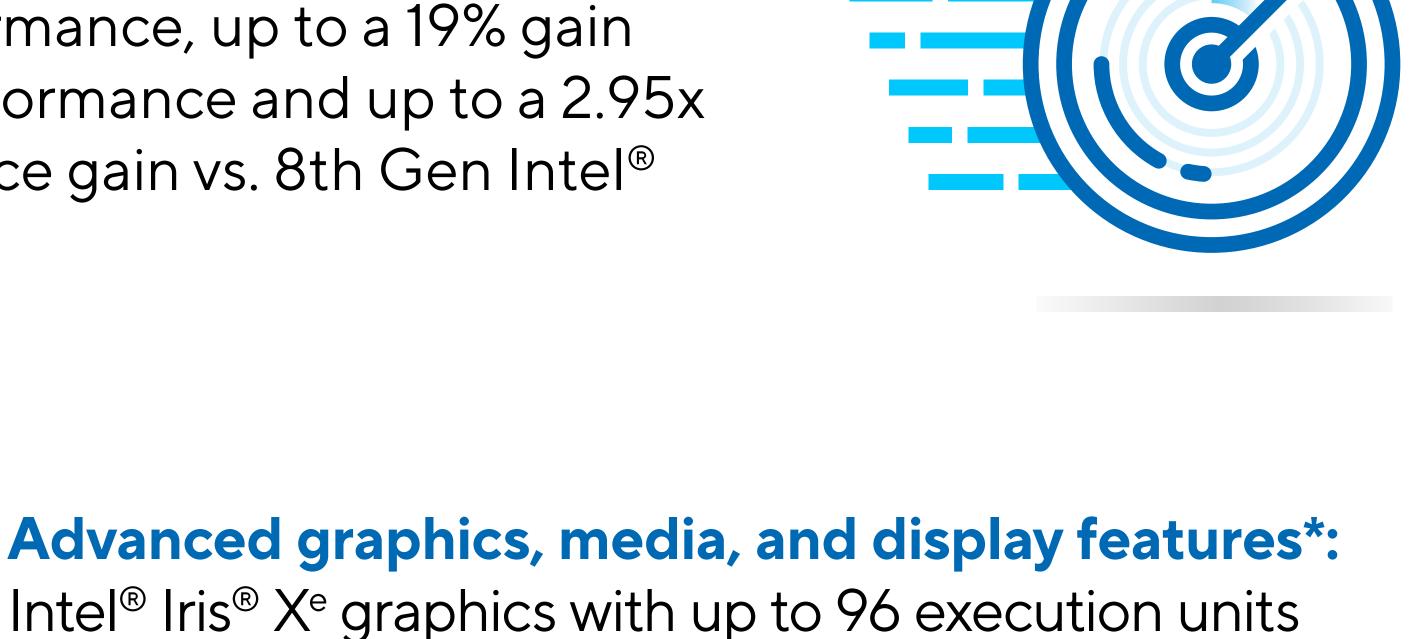
High-performance, responsive CPU/GPU

compute combined with Al/deep learning

graphics performance gain vs. 8th Gen Intel® Core[™] processors^{2†}

single-thread performance, up to a 19% gain

in multi-thread performance and up to a 2.95x





that will deliver up to 2.95x the graphics performance of 8th Gen Intel® Core™ processors and dual video decode boxes can process up to 40 simultaneous

video streams at 1080p 30 frames/second and output up to four channels of 4K or two channels of 8K video² Put accelerated Al inferencing and

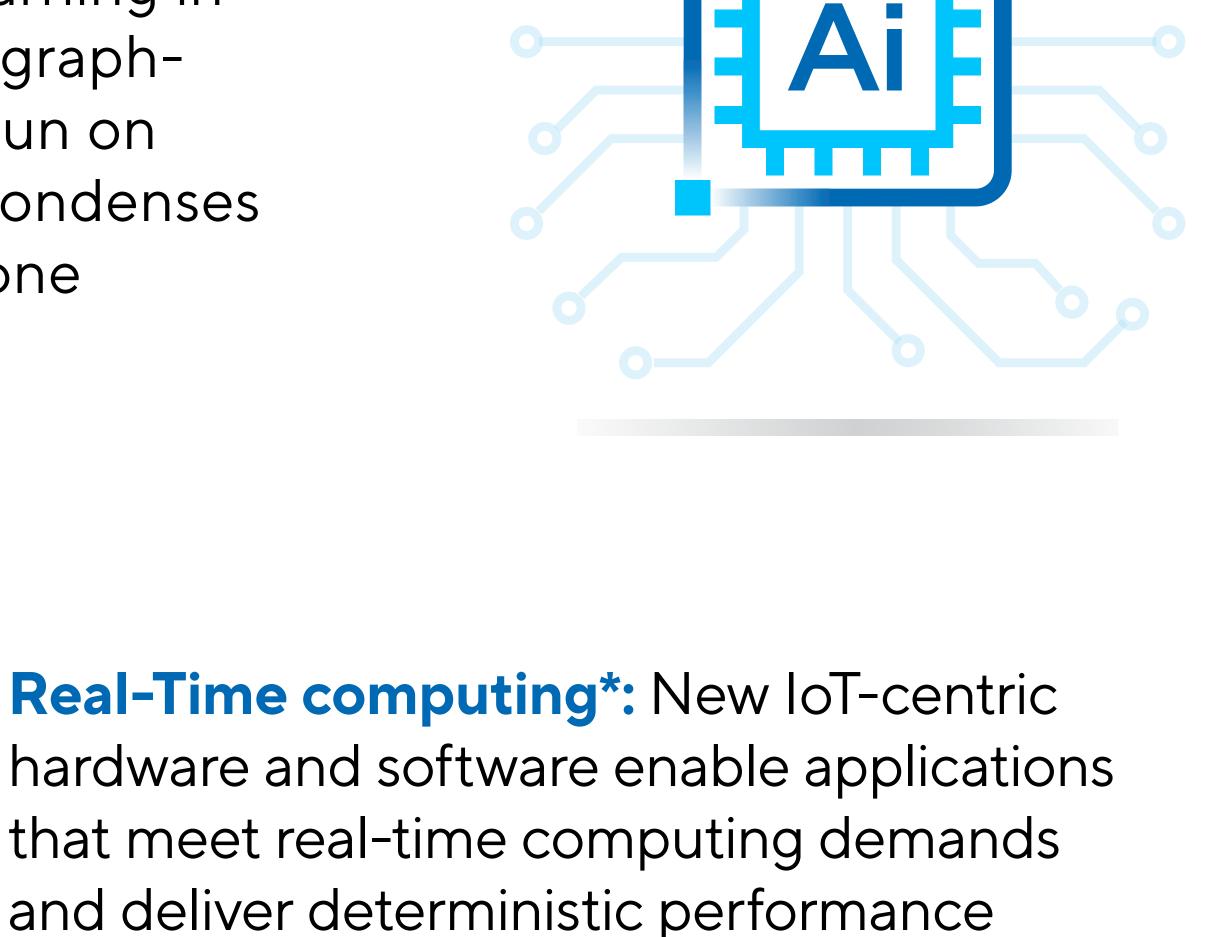
the CPU with VNNI, which condenses three AVX instructions into one

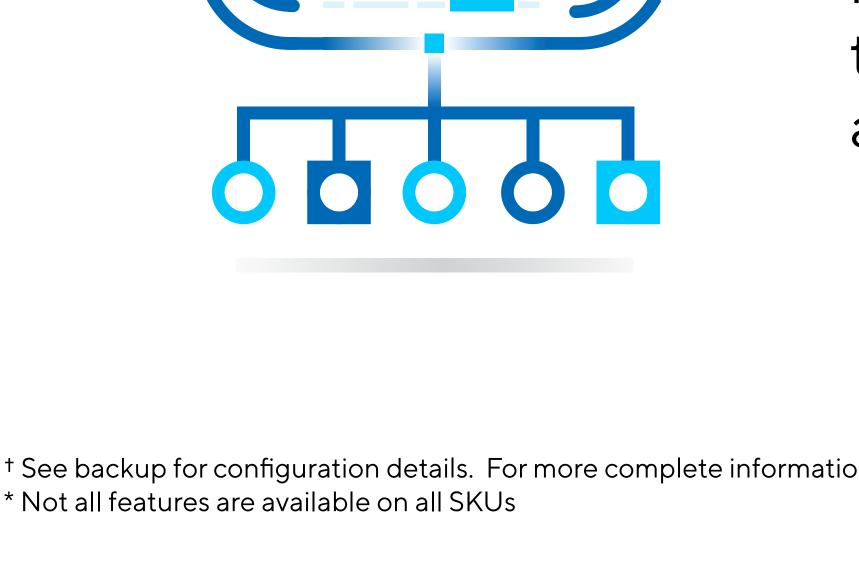
computer vision to work with a single

architecture: Al and deep learning in-

ference can run on up to 96 graph-

ic execution units (INT8) or run on





[†] See backup for configuration details. For more complete information about performance and benchmark results, visit <u>www.intel.com/benchmarks.</u>

human-machine interfaces



USE CASES



Retail, banking, and hospitality: Drive intelligent, immersive digital signage, interactive kiosks, and automate checkout

Healthcare: Build next-generation medical

imaging devices with high-resolution displays

Industrial sectors: Build mission-critical control

systems (PLC, robotics, etc), industrial PCs, and



and Al-powered diagnostics

Build smart network video recorders

with onboard Al inferencing and analytics

To learn more, visit intel.com/tiger-lake-up3

1. IDC white paper, sponsored by Seagate, Data Age 2025, April 2017. 2. Source: Intel. Performance claim based on SPEC CPU 2017 metrics estimated by measurements on Intel internal reference platforms completed on August 27, 2020. Graphics claim based on 3DMark11_V1.0.4 Graphics Score estimated by measurements on Intel internal reference platforms on August 27, 2020. Testing Configuration:

Processor: Intel® Core™ i7 1185G7E PL1=15W TDP, 4C8T Turbo up to 4.4GHz Graphics: Intel Graphics Gen 12 gfx Memory: 16GB DDR4-3200

OS: Windows* 10 Pro (x64) Build 19041.331 (2004/ May 2020 Update). Power policy set to AC/Balanced mode for all benchmarks. All benchmarks run in Admin mode &

Processor: Intel® Core™ i7 – 8665UE 15W PL1=15W TDP, 4C8T Turbo up to 4.4GHz Graphics: Intel Graphics Gen 9 gfx Memory: 16GB DDR4-2400 Storage: Intel SSD 545S (512GB) OS: Windows* 10 Enterprise (x64) Build 18362.175 (1903/ May 2019 Update). Power policy set to AC/Balanced mode for all benchmarks. All benchmarks run in Admin mode

Bios: Intel Corporation TGLSFWI1.R00.3333.A00.2008122042OneBKC: tgl_b2b0_up3_pv_up4_qs_ifwi_2020_ww32_4_01

& Tamper Protection Disabled / Defender Disabled. Bios: CNLSFWR1.R00.X208.B00.1905301319 **Notices and Disclaimers**

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations, and functions. Any change to any

of those factors may cause the results to vary. You should consult other information and performance tests toassist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information, visit www.intel.com/benchmarks. 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.

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Not all features are supported in every operating system. Intel may change availability of products and support at any time without notice.

Not all features are available on all SKUs.

Storage: Intel SSDPEKKW512GB (512 GB, PCI-E 3.0 x4)

Tamper Protection Disabled / Defender Disabled.

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