

A powerful match for compute-intensive, heavy-duty edge workloads

11th Gen Intel® Core™ vPro®, Intel® Xeon® W-11000E Series, and Intel® Celeron® processors

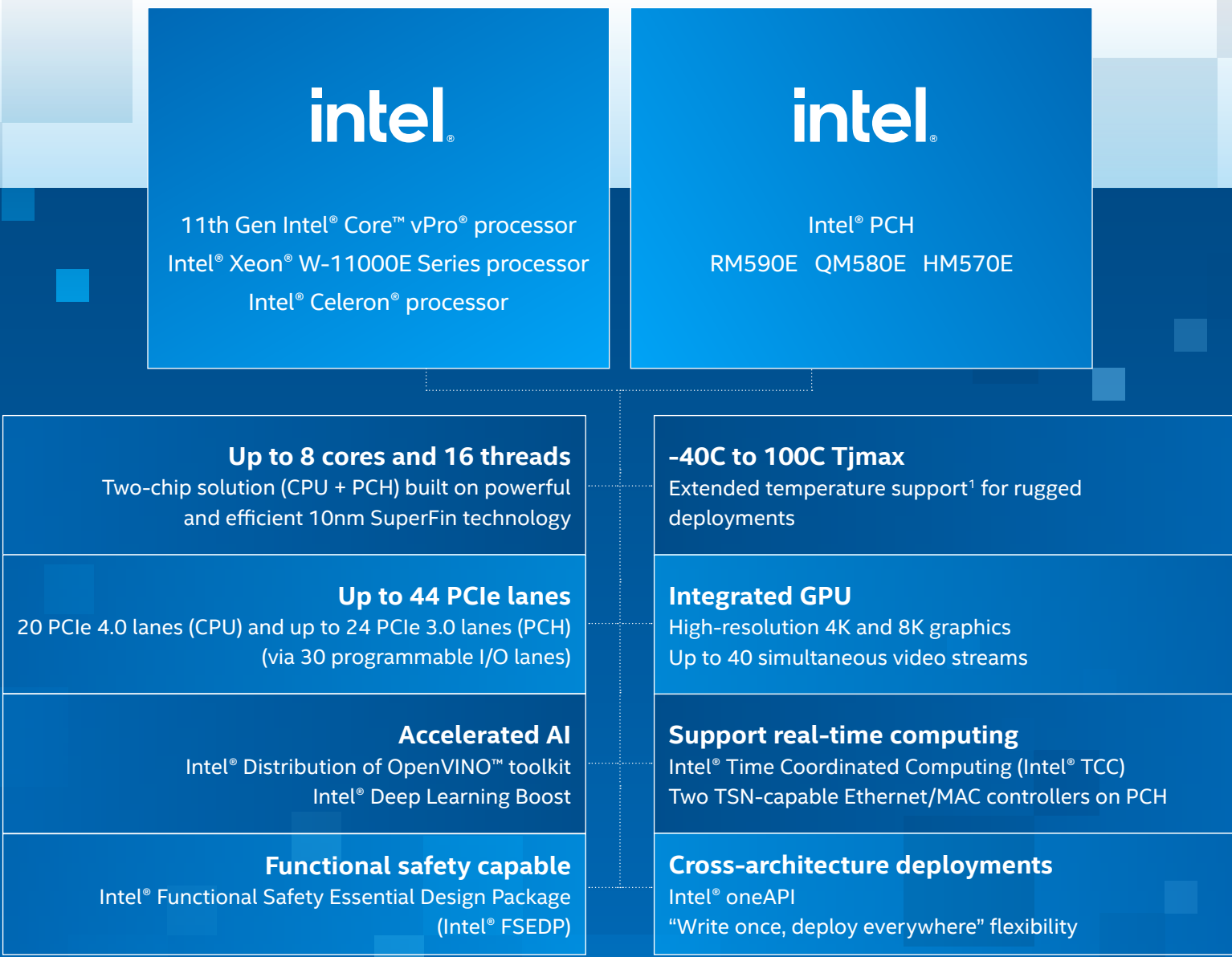


Deliver power, performance, and efficient AI for heavy edge workloads in embedded and industrial use cases, with high bandwidth, real-time features, functional safety capabilities, and extended temperature support.¹

Compared to previous-generation processors:²



Innovative two-chip solution



Industrial and energy

Meet latency and jitter requirements for safety-critical infrastructure.

Real-time automation, predictive maintenance, smart control systems, industrial PCs, edge servers

Public sector

Bring functional safety and intelligence to the edge with ruggedness and extended temp ranges.¹

Avionics, general-purpose edge compute, radar, vehicle displays

Healthcare

Accelerate diagnoses with hi-res image processing on next-gen architecture.

Smart diagnostics, ultrasound machines, medical carts, endoscopy

Gaming

Immerse customers with 4K or 8K video and natural language processing.

Augmented table games, slot machines

Retail

Boost customer engagement with smart signage and video wall experiences.

Digital signage, kiosks, point of sale, interactive flat panel displays

Choose embedded or industrial SKUs for greater solution specificity across high-value deployments

Learn more about 11th Gen Intel Core vPro, Intel Xeon W-11000E Series, and Intel Celeron processors at intel.com/tigerlake-h

1 Not all features are available on all SKUs. Not all features are supported in every operating system.

2 Vs. previous-generation Intel® Core™ i7-9850HE (IoT H Series Coffee Lake R) processors. Performance results are based on Intel measurements as of May 25, 2021. Configuration A. Processor: Intel® Core™ i7-11850HE (TGL-H) PL1=45W TDP, 8C16T turbo up to 4.7 GHz. Graphics: Intel® Graphics Gen 12 GFX. Memory: 32 GB DDR4-3200. Storage: Intel® SSD 5455 (512 GB). OS: Windows 10 Pro 20H2. Bios: TGLSPW11.R00.4151.A01.2104060640 (release date: 04/06/2021). CPUz Microcode: 28h. Configuration B. Processor: Intel® Core™ i7-9850HE (CFL-H) PL1=45W TDP, 4C8T turbo up to 4.4 GHz. Graphics: Intel® Graphics Gen 9 GFX. Memory: 32 GB DDR4-2666. Storage: Intel SSD 5455 (512 GB). OS: Windows 10 Pro 20H2. Bios: CNLSPWR1.R00.X216.B01.2006110406 (release date: 06/11/2020). CPUz microcode: D6h.

3. Up to 32 percent single-thread performance gains as measured by SPECrate2017_int_base (1-copy)C19_0u4 (est.).

4. Up to 65 percent multi-thread gain as measured by SPECrate2017_int_base (n-copy)C19_0u4 (est.).

5. Up to 70 percent faster graphics as measured by 3DMark_v2.11 - Win10 v2009 - Fire Strike - graphics score.

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Performance varies by use, configuration, and other factors. Learn more at www.intel.com/PerformanceIndex.

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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.

Intel contributes to the development of benchmarks by participating in, sponsoring, and/or contributing technical support to various benchmarking groups, including the BenchmarkXPRT Development Community administered by Principled Technologies.

Your costs and results may vary.

Intel® technologies may require external hardware, software, or service activation.

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