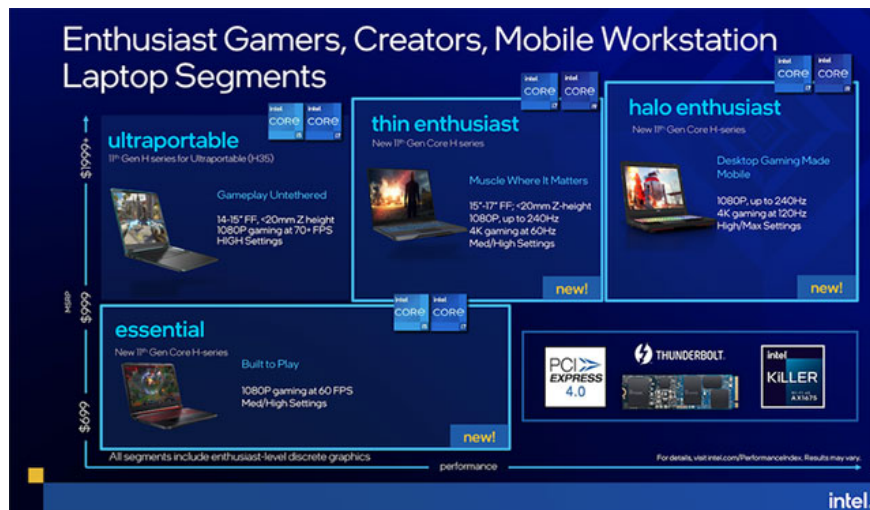


The 11th generation Intel Core H-series (Tiger Lake-H) mobile processors have just arrived

So, according to the roadmap, Intel has officially launched the 11th generation Core H mobile processors, also known as Tiger Lake-H.

According to Intel, the new chip models are designed to deliver powerful processing power for business laptops, digital content creation professionals, and even gamers. In addition, they are also developed by Intel to compete with the latest Ryzen 9 5000 series chips from the AMD family, which are also highly appreciated by the community.

One of the biggest highlights to mention on the 11th generation Tiger Lake-H series is the 8-core 16-thread design - much more impressive than the predecessor Core H35-series 4-core 8-thread processors. , which is also designed to run on ultraportable gaming laptops. In addition, this new Tiger Lake-H series is also custom built on the 10 nanometer SuperFin manufacturing process (the same as the H35 chip), but can offer single and dual core turbo speeds up to 5.0GHz.



Intel confidently affirms that the new chip models can deliver up to 19% increased multi-thread performance, while total PCIe bandwidth for the CPU is also 2.5 times higher than 10th generation mobile processors. Predecessor. The US chip maker also said that this 11th-generation Core H-series processor can provide 3 times the total PCIe bandwidth when compared to other processors in the same segment on the market. current school.

CPUs on new chips have direct access to the GDDR6 memory attached to the graphics card, and support advanced processor overclocking and tuning (on select models) thanks to Intel's exclusive Adaptix technology package. (Intel Speed ??Optimizer, Intel Dynamic Tuning Technology and Intel Extreme Tuning Utility).

The 11th generation Core H-series mobile processors include, Intel Core i9-11980HK, i9-11900H, i7-11800H, i511400H and i5-11260H.

11th Gen Intel® Core™ Consumer Mobile Processors

Processor Number	Cores / Threads / L3 Cache	DDR4 (MT/s) ¹	Base Freq (GHz) @45W TDP	Intel® Turbo Boost Technology					Freq (GHz) @config TDP	Graphics Branding	Graphics Base / Max (MHz)	Tj (deg C)	Intel® Technologies		
				Max 1-Core Turbo (GHz)	Max 2-Core Turbo (GHz)	Max 4-Core Turbo (GHz)	Max 6-Core Turbo (GHz)	Max 8-Core Turbo (GHz)					Intel® SIPP	Intel® vPro™	Intel® TXT
i9-11980HK	8C/16T 24M	3200	2.6	5.0 w/ITBM3.0	5.0 w/ITBM3.0	4.9	4.7	4.5	3.3 @ 65W	Intel® UHD Graphics	350 / 1450	100	No	No	No
i9-11900H	8C/16T 24M	3200	2.5	4.9 w/ITBM3.0	4.9 w/ITBM3.0	4.8	4.6	4.4	2.1 @ 35W	Intel® UHD Graphics	350 / 1450	100	No	No	No
i7-11800H	8C/16T 24M	3200	2.3	4.6	4.6	4.5	4.4	4.2	1.7 @ 35W	Intel® UHD Graphics	350 / 1450	100	No	No	No
i5-11400H	4C/12T 12M	3200	2.7	4.5	4.5	4.3	4.1	N/A	2.2 @ 35W	Intel® UHD Graphics	350 / 1450	100	No	No	No
i5-11260H	4C/12T 12M	3200	2.6	4.4	4.4	4.2	4.0	N/A	2.1 @ 35W	Intel® UHD Graphics	350 / 1400	100	No	No	No

Intel® processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. All processors are lead free (per EU RoHS directive, July 2006) and halogen free (critical amounts of halogens are below November 2007 proposed PCL/ELC/J-STD-TDP standards). Altering clock frequency or voltage may void warranty and reduce stability, security, performance, and life of the processor and other components. Check with system and component manufacturers for details.

In addition to the 11th-generation Core H-series mobile processors, Intel has just officially introduced the all-new Intel vPro H-series and Xeon W-11000 mobile processors. Essentially, vPro and Xeon processors are designed by Intel with dedicated processing capabilities aimed at "performance-intensive, multi-threaded applications", so this line of chips is often favored on Mobile workstations, especially in corporate environments.

More specifically, these chips possess a series of specialized IT features such as Xeon + Error Correcting Code (ECC), hardware-based security through Intel Hardware Shield, full memory encryption with Intel Total Memory Encryption, endpoint management with Intel Active Management Technology, and the ability to optimize AI-intensive tasks with Intel Deep.

The 11th Intel vPro H-series processor family includes the models i9-11950H, i7-1185H, and i5-11500H. While the mobile processor Intel Xeon W-11000 includes two models W-11955M and W-11855M.

11th Gen Intel® Core™ Commercial Mobile Processors

Processor Number	Cores / Threads / L3 Cache	DDR4 (MT/s) ¹	Base Freq (GHz) @45W TDP	Intel® Turbo Boost Technology					Freq (GHz) @config TDP	Graphics Branding	Graphics Base / Max (MHz)	Tj (deg C)	Intel® Technologies		
				Max 1-Core Turbo (GHz)	Max 2-Core Turbo (GHz)	Max 4-Core Turbo (GHz)	Max 6-Core Turbo (GHz)	Max 8-Core Turbo (GHz)					Intel® SIPP	Intel® vPro™	Intel® TXT
W-11955M	8C/16T 24M	3200	2.6	5.0 w/ITBM3.0	5.0 w/ITBM3.0	4.9	4.7	4.5	2.1 @ 35W	Intel® UHD Graphics	350 / 1450	100	Yes	Yes	Yes
i9-11950H	8C/16T 24M	3200	2.6	5.0 w/ITBM3.0	5.0 w/ITBM3.0	4.9	4.7	4.5	2.1 @ 35W	Intel® UHD Graphics	350 / 1450	100	Yes	Yes	Yes
W-11855M	4C/12T 12M	3200	3.2	4.9 w/ITBM3.0	4.9 w/ITBM3.0	4.7	4.4	N/A	2.6 @ 35W	Intel® UHD Graphics	350 / 1450	100	Yes	Yes	Yes
i7-11850H	8C/16T 24M	3200	2.5	4.8	4.8	4.8	4.6	4.3	2.1 @ 35W	Intel® UHD Graphics	350 / 1450	100	Yes	Yes	Yes
i5-11500H	4C/12T 12M	3200	2.9	4.6	4.6	4.4	4.2	N/A	2.4 @ 35W	Intel® UHD Graphics	350 / 1450	100	Yes	Yes	Yes

Intel® processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. All processors are lead free (per EU RoHS directive, July 2006) and halogen free (critical amounts of halogens are below November 2007 proposed PCL/ELC/J-STD-TDP standards). Altering clock frequency or voltage may void warranty and reduce stability, security, performance, and life of the processor and other components. Check with system and component manufacturers for details.

General specifications of the Intel Core H-Series 11th generation processor family:

1. Willow Cove Core Microarchitecture (up to 8 cores and up to 16 threads)
2. Clock up to 5.0GHZ with Intel Turbo Boost Max Technology 3.0

3. 10nm SuperFin manufacturing process
4. 20 PCIe Gen 4 lanes with Intel Rapid Storage Technology, boot support in Raid 0 (a total of 44 PCIe lanes including 24 PCIe Gen 3 lanes from a dedicated platform console)
5. Thunderbolt 4 with transfer speeds up to 40Gbps
6. Supports RAM up to 128GB DDR4-3200 (up to 3200MT / s)
7. Intel Killer Wi-Fi 6E 6E (Gig +) discrete
8. Supports integrated Intel Wi-Fi 6 AX201 (Gig +)
9. Supports 2.5G Intel Ethernet I225 (Foxville)
10. Embedded Display Port (eDP) integrated
11. Integrated IPU6SE to support high fidelity MIPI
12. Supports Intel Extreme Tuning Utility (XTU)
13. Intel Speed ??Optimizer
14. Core Voltage Control technology supports voltage control per core (applicable on i9-11980HK)
15. AVX2 / 512 Offset / Voltage override (applicable on i9-11980HK)
16. CPU Internal BCLK Option

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