

Intel launches the first U-series processor to reach 5GHz

Computex 2021, one of the biggest annual product launch events in the computer industry will officially start tomorrow. However, the giant Intel has made an impressive pitch.

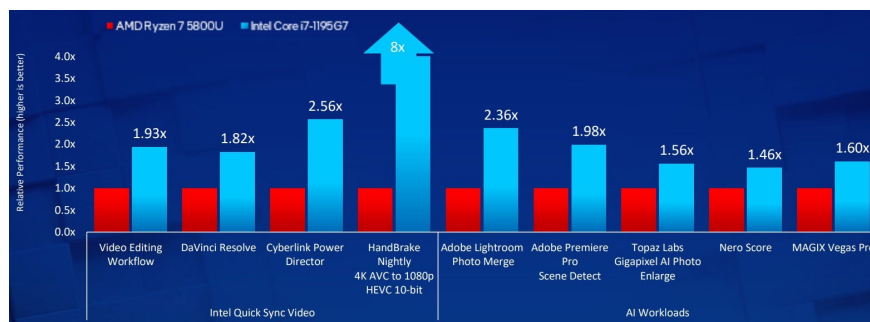
Including the presence of two completely new processor models of the Tiger Lake family, especially in the U-series product line, for thin and light laptops.

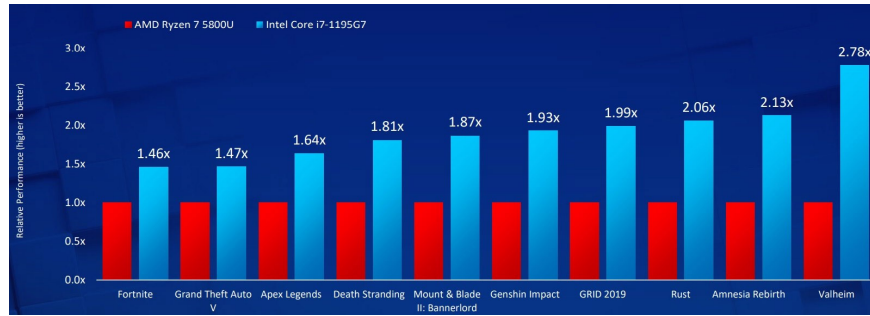
These two new processor models are named Core i7-1195G7 and i5-1155G7. Basically, both of these new chips are developed on the 10nm SuperFin process, and operate stably in the power range from 12W to 28W with 4 cores and 8 threads. In terms of graphics processing capabilities, Intel's new chipset duo integrates Intel Iris Xe GPU. Core i7-1195G7 has 96 EU units (execution units), while Core i5-1155G7 has 80 EU units

	Processor Number	Graphics	Cores / Threads	Graphics (EU)	Cache	Memory	Operating Range	Base Freq (GHz)	Max Single-Core Turbo (GHz)	Max All-Core Turbo (GHz)	Graphics Max Freq (GHz)	Intel Gaussian and Neural Accelerator (GNA)
UP3	Intel® Core™ i7-1195G7	Intel® Iris® Xe Graphics**	4/8	96	12MB	DDR4-3200 LPDDR4x-4266	12-28W	2.9	5.0*	4.6	1.40	✓
	Intel® Core™ i7-1185G7	Intel® Iris® Xe Graphics**	4/8	96	12MB	DDR4-3200 LPDDR4x-4266	12-28W	3.0	4.8	4.3	1.35	✓
	Intel® Core™ i7-1165G7	Intel® Iris® Xe Graphics**	4/8	96	12MB	DDR4-3200 LPDDR4x-4266	12-28W	2.8	4.7	4.1	1.30	✓
	Intel® Core™ i5-1155G7	Intel® Iris® Xe Graphics**	4/8	80	8MB	DDR4-3200 LPDDR4x-4266	12-28W	2.5	4.5	4.3	1.35	✓
	Intel® Core™ i5-1145G7	Intel® Iris® Xe Graphics**	4/8	80	8MB	DDR4-3200 LPDDR4x-4266	12-28W	2.6	4.4	4.0	1.3	✓
	Intel® Core™ i5-1135G7	Intel® Iris® Xe Graphics**	4/8	80	8MB	DDR4-3200 LPDDR4x-4266	12-28W	2.4	4.2	3.8	1.30	✓
	Intel® Core™ i3-1125G4	Intel® UHD Graphics	4/8	48	8MB	DDR4-3200 LPDDR4x-3733	12-28W	2.0	3.7	3.3	1.25	✓
	Intel® Core™ i3-1115G4	Intel® UHD Graphics	2/4	48	6MB	DDR4-3200 LPDDR4x-3733	12-28W	3.0	4.1	4.1	1.25	✓

Most notably is the case of the Core i7-1195G7. This is the first U series processor model with the ability to clock up to 5GHz, or rather the world's first 5GHz CPU model for thin and light laptops that can achieve high clock rates. so far, according to Intel's statement.

In fact, this is not surprising because Intel has gradually pushed many of its processors to 5GHz over the past few years according to a specific roadmap. Naturally, this is a single-core boost clock with Intel Turbo Boost Max technology, but the maximum boost speed for all cores is also up to 4.6 GHz - a very impressive number. At the same time, the integrated Iris Xe GPU can also boost the clock slightly higher, up to 1.4GHz.





As can be seen above, Intel has directly compared the Core i7-1195G7 with AMD's Ryzen 7 5800U in both the gaming and content creation aspects, showing a markedly better performance of the Core i7-1195G7.

Core i7-1195G7 and i5 -1155G7 are expected to be equipped on more than 60 PC models launched in the near future, with the first models coming from familiar brands such as Acer, ASUS, Lenovo and MSI right in the summer. this.

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