

Revealed 11 Intel's first generation 10 Ice Lake CPU models

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Intel has announced 11 Ice 10 Intel Lake CPU models aimed at light-weight 2-in-1 laptops, increasing AI processing capabilities, integrating Intel Iris Plus improved graphics core, and supporting Thunderbolt 3 high-speed and Connect Intel Wi-Fi 6 (Gig +).

11 Generation 10 Ice Lake CPUs will have all models from Core i3 to Core i7 and are named in the familiar way of Intel, starting with 2 numbers 1 and 0 respectively for generation 10. The new point is in The end of the name of CPU Ice Lake will have the suffix G1, G4 or G7.

	Processor Number	IA Cores/Threads	Graphics (EUs)	Cache	Nominal TDP/Config/UP TDP	Base Freq (GHz)	Max Single Core Turbo (GHz)	Max All Core Turbo (GHz)	Graphics Max Freq (MHz)	Intel® DL Boost/GNA
U-Series	Intel® Core™ i7-1068G7	4/8	64	8MB	28W	2.3	4.1	3.6	1.10	✓
	Intel® Core™ i7-1065G7	4/8	64	8MB	15W/25W	1.3	3.9	3.5	1.10	✓
	Intel® Core™ i5-1035G7	4/8	64	6MB	15W/25W	1.2	3.7	3.3	1.05	✓
	Intel® Core™ i5-1035G4	4/8	48	6MB	15W/25W	1.1	3.7	3.3	1.05	✓
	Intel® Core™ i5-1035G1	4/8	32	6MB	15W/25W	1.0	3.6	3.3	1.05	✓
	Intel® Core™ i3-1005G1	2/4	32	4MB	15W/25W	1.2	3.4	3.4	0.90	✓
Y-Series	Intel® Core™ i7-1060G7	4/8	64	8MB	9W/12W	1.0	3.8	3.4	1.10	✓
	Intel® Core™ i5-1030G7	4/8	64	6MB	9W/12W	0.8	3.5	3.2	1.05	✓
	Intel® Core™ i5-1030G4	4/8	48	6MB	9W/12W	0.7	3.5	3.2	1.05	✓
	Intel® Core™ i3-1000G4	2/4	48	4MB	9W/12W	1.1	3.2	3.2	0.90	✓
	Intel® Core™ i3-1000G1	2/4	32	4MB	9W/12W	1.1	3.2	3.2	0.90	✓

All with integrated Intel® Wi-Fi6 (Gig+) and Thunderbolt™ 3

In particular, G7 with 64 EU units (execution units) are the CPUs with the strongest graphics core, followed by G4 with 48 EU and CPU with the lowest graphics is G1 with 32 EU .

The first 11 models will be for laptops, still divided into 2 lines U and Y but be distinguished by the numbers 0, 5, and 8 corresponding to the TDP. The greater the TDP level, the more power consumption and the stronger the performance. Specifically, the Y series chips will have a zero before the G symbol, while the U series will have a number of 5 or 8. Accordingly 0 is a TDP of 9W, 5 is a TDP of 15W and 8 is a 28W TDP.

10TH GEN INTEL® CORE™ PROCESSORS WITH INTEL® IRIS® PLUS GRAPHICS

Redefining What's Possible in a Thin and Light Computer

INTELLIGENT PERFORMANCE	1 ST AI INSTRUCTION SET & TFLOP INFERRING on a thin-and-light client	Approx. 2.5X AI PERFORMANCE vs prior gen and 8X PERFORMANCE VS COMP using DL Boost	ULTRA-LOW POWER LOCAL VOICE APPLICATIONS	Lead designs with Intel® ADAPTIX™ technology up to an additional +20% GFX PERFORMANCE
STUNNING ENTERTAINMENT	HIGHEST PERFORMING INTEGRATED GRAPHICS on a thin-and-light client	Play TOP GAMES AT 1080P with up to 2X FASTER frame rates	PRO CONTENT CREATION	Watch 4K60 HDR video IN A BILLION COLORS
BEST CONNECTIVITY	INTEL® WI-FI 6 GIG+ is the best Wi-Fi 6 implementation for PCs	Nearly 3X FASTER WI-FI than .11ac	THUNDERBOLT™ 3 integrated for the first time and with UP TO 4 PORTS	THUNDERBOLT™ 3 is the fastest and most versatile connector Up to 4X FASTER than USB3.1

Y series CPUs will have a TDP of 9W to 12W, saving energy, suitable for ultra-thin laptops.

U series CPUs will have a TDP of between 15W and 25W and a maximum of 28W in the Core i7-1068G7 model, providing higher performance, suitable for compact laptops that need more performance.

Core i5 and i7 chips will have 4 powerful 8-core cores, better multitasking, while Core i3 models will have only 2 4-core processors.

10TH GEN INTEL® CORE™ PROCESSORS: ICE LAKE

Processor	Core i3, i5, i7
Thermal Design Power	9W, 15W, 28W
Cores/Threads	Up to 4C/8T
LL Cache Size	Up to 8MB
Max Turbo Frequency	Up to 4.1GHz
Graphics Configuration	Intel® Iris® Plus up to 64EU Intel® UHD graphics
Graphics Frequency	Up to 1.1GHz
Integrated Wi-Fi	Intel® Wi-Fi 6 (Gig+)
Integrated USB Type-C	Up to 4 Thunderbolt™ 3 ports
Memory	LP4/x-3733, DDR4-3200

The i7-1068G7 when running at single-core Turbo and 3.6 GHZ when multi-core reaches the maximum clock rate of up to 4.1 GHz.

Intel said there were 35 laptop models equipped with Ice Lake CPU ready to ship during the holiday season later this year.

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