

# AMD Ryzen 7 4000 Series, the world's first 7nm chip family for laptops

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Ryzen 4000 is the world's first 7nm processor for mobile devices. Compared to Intel's latest Ice Lake chips, the Ryzen 4000 has an outstanding performance. Specifically, compared to the Core i7-1065G7, which is using Intel's 10nm process, Ryzen 4000 has the ability to handle single-core improved by more than 4%, while multi-core performance is improved up to 90%, graphics 28%.



AMD Ryzen 7 4000 Series.

The new Ryzen 7 4800U processor, thanks to its transition to 7nm process, offers twice the power efficiency of Ryzen 7 chips. This means, laptop usage time will also be increased.

## AMD RYZEN™ 4000 U-SERIES

PREMIUM PERFORMANCE FOR ULTRATHIN LAPTOPS

AMD RYZEN	CORES/THREADS	FREQUENCY (UP TO)	CACHE	GRAPHICS CORES	GRAPHICS FREQUENCY	TDP
AMD Ryzen™ 7 4800U	8 / 16	4.2 / 1.8 GHz	12MB	8	1750 MHz	15W
AMD Ryzen™ 7 4700U	8 / 8	4.1 / 2.0 GHz	12MB	7	1600 MHz	15W
AMD Ryzen™ 5 4600U	6 / 12	4.0 / 2.1 GHz	11MB	6	1500 MHz	15W
AMD Ryzen™ 5 4500U	6 / 6	4.0 / 2.3 GHz	11MB	6	1500 MHz	15W
AMD Ryzen™ 3 4300U	4 / 4	3.7 / 2.7 GHz	6MB	5	1400 MHz	15W

Nominal 15W TDP  
OEM Configurable 12-25W

Specifications and performance of Ryzen 7 4000 U-series.

AMD's third-generation Ryzen 4000 series is divided into 3 series:

1. U Series: For ultra-thin laptop Ultrathin.
2. H Series: For gamers and content creators.
3. Pro Series: For business-oriented ultrathin devices.

## AMD RYZEN™ 4000 H-SERIES

ULTIMATE PERFORMANCE IN SLEEK, MODERN GAMING AND CREATIVE LAPTOPS

AMD RYZEN	CORES/THREADS	FREQUENCY (UP TO)	CACHE	GRAPHICS CORES	GRAPHICS FREQUENCY	TDP
AMD Ryzen™ 7 4800H	8 / 16	4.2 / 2.9 GHz	12MB	7	1600 MHz	45W
AMD Ryzen™ 5 4600H	6 / 12	4.0 / 3.0 GHz	11MB	6	1500 MHz	45W

Nominal 45W TDP  
OEM Configurable 35-45W

Specifications and performance of Ryzen 7 4000 H-series.

Lenovo Yoga Slim 7 is one of the first devices to be equipped with AMD's new laptop chip.

1. [CES 2020] Lenovo ThinkPad X1 Fold, the world's first folding laptop, costs \$ 2,500
2. NEC LaVie Pro Mobile laptop weighs only 837g, Core i7 chip, 15-hour battery
3. CES 2020: Intel will launch extremely compact modular gaming PC

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