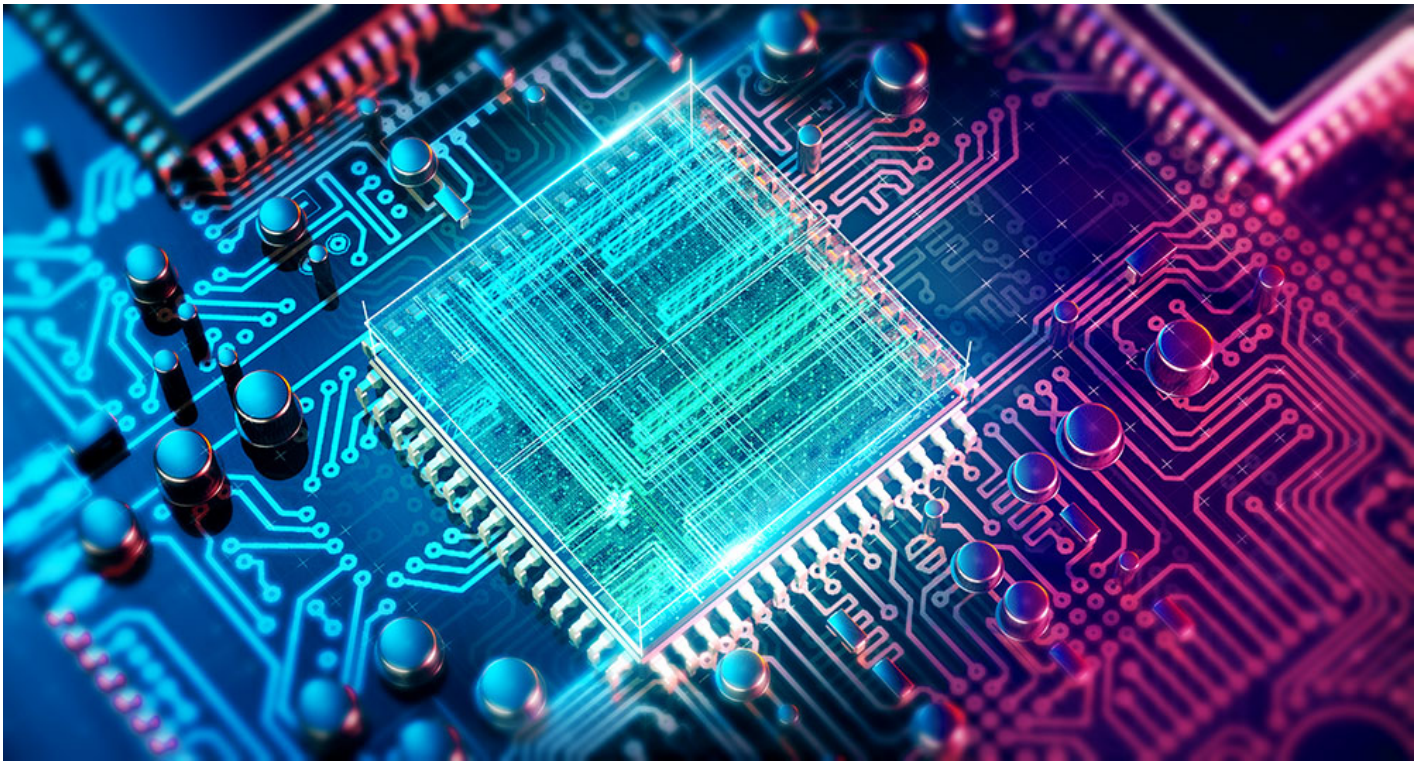
# Get more out of your SSD with AMD Ryzen™ 5000



## What is Ryzen™ 5000 for Mobile?

Ryzen™ 5000 series mobile processors were announced at CES 2021 as a refresh to the previous Ryzen™ 4000 Mobile generation. AMD introduced 14 new models to cover the full spectrum of performance needs. The high-end H-Series is entirely built on the new Zen 3 architecture, using Zen 3 cores with double the L3

cache. This cache is also unified into a single eight-core unit, rather than two four-core units as found in the previous generation. Optimizations here help reduce latency between cores and memory with particular advantages for activities like gaming.

The lower-end U-Series, specifically made for ultrabooks – thin, light laptops oriented at having a long battery life – is split between higher-end, Zen 3 based processors and lower-end, Zen 2 based processors. While all of the U-Series fit into the 15W TDP envelope, the previous H-Series is designed for 35W, 45W, or 45W+, the last indicating the ability for OEMs to allow for overclocking of the processor. All of these models come in at quad-core/eight-thread, hexa-core/twelve-thread, or octa-core/sixteen-thread, with base frequencies from 1800 MHz to 3300 MHz and boost clocks from 3800 MHz to 4800 MHz.

Although these chips lack improvements on the GPU end, overall platform support is still impressive. This includes x8 lanes of PCIe® 3.0 bandwidth with support for any solid state drive and DDR4 memory up to 4266 MHz, including low power DRAM. This follows in the concept of having very efficient designs and utilizing SSDs rather than HDDs improves battery life even further. Nevertheless, performance is also excellent and improved, and with that many cores it's possible to get a lot more out of your SSD.

## Where Does Ryzen™ 5000 Shine?

Ryzen™ 5000 Mobile processors shine in several major areas: performance, battery life, content creation, productivity, and mobile gaming. The ability to have eight cores in an ultrabook is especially impressive. AMD touts some of the fastest performance for 2D image editing, video editing, 3D rendering, and compiling, along with traditional office productivity tasks. There's also a ton of performance for gaming especially with the new Zen 3 based processors with lower cache latency.

All of these tasks are drastically improved with the addition of fast, solid state storage. Whether NVMe or SATA, the Ryzen™ 5000 Mobile platform is able to meet your needs, including with multiple SSDs. Multi-tasking and responsiveness have been improved with these new processors and to get the most out of those cores you should have state-of-the-art flash storage in your new laptop or ultrabook. Our drives are the perfect partner for the fast and efficient mobile processors from AMD – making sure you don't have to

compromise on battery life, convenience, or performance.

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## Our SSD Solution

**CA6** Series | PCIe™ Gen 4

- Slim form factor— M.2 2280
- Random read/write up to 1000K/1000K IOPS
- Low latency
- LDPC technology

Please contact our Solid State Storage Technology Corp. expert for more information.

*Specifications and features are subject to change without prior notice. Images are samples only, not actual products.

# ABOUT US

A subsidiary of KIOXIA Corporation, **Solid State Storage Technology Corporation** is a global leader in the design, development, and manufacturing of digital storage solutions. We offer a comprehensive lineup of high-performance customizable SSDs for the Enterprise, Industrial, and Business Client markets. With various form factors and interfaces, our SSD solutions help businesses simplify their storage infrastructures accelerating variable workloads, improving efficiency, and reducing total cost of ownership.



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