



White box servers for SaaS



Memory and storage to improve customer experience, reduce latency, and lower energy costs

Data volumes are booming, and AI applications are becoming the norm, pushing servers to their limits. Customer expectations around speed and user experience are at an all-time high and show no sign of backing down.

Growth will continue rapidly and keeping data centers on pace will be challenging, yet promising, as each piece of new data represents an opportunity for better SaaS.

Success depends on servers that are purpose-built to meet rising demands. SaaS companies can turn to white box servers to improve customer experience, speed up transactions, and train AI models.

Server Solutions

Challenge

>80% of AI projects fail according to some estimates¹, which may be surprising given how prevalent AI is in the marketplace these days. To succeed, businesses need high-performance servers that can keep pace with the intensive demands of AI.

Solution

Launch AI with high-performance Micron® 9550 NVMe™ SSDs

The Micron 9550 excels in extreme AI workloads by accelerating results while reducing energy consumption

[Learn more about the 9550 NVMe SSD](#)



9550 vs competitive offerings

4% higher token throughput²

19% less average SSD power used (watts)²

21% less SSD energy used (joules)²

Challenge

92% of SaaS companies struggle with scaling their infrastructure³ effectively. Right-sizing storage solutions helps with scalability by helping ensure you get the most from costly GPUs and process data smoothly across your operations.

Solution

Reduce latency with Micron[®] 7500 NVMe[™] SSDs

The Micron 7500 can improve the response times for a wide range of mainstream applications



[Learn more about the 7500 NCMe SSD](#)

7500 vs competitive offerings

Random read:

59% higher maximum performance⁴

54% better application response time⁴

Random read while writing:

2.1x higher maximum performance⁴

49% better application response time⁵

Challenge

~1.5% of global electricity use is accounted for by data centers⁵ and that number is continuing to grow. Energy costs can become a problem when scaling SaaS servers over time.

Solution

Reduce power consumption with high-capacity Micron[®] 6550 ION NVMe[™] SSDs

The Micron 6550 offers massive capacity (>60TB) while delivering exceptional power efficiency to reduce total cost of ownership (TCO) and make your servers more sustainable as you scale your business

[Learn more about the 6550 NVMe SSD](#)



6550 vs competitive offerings

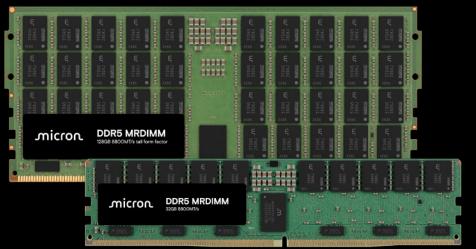
250% better performance⁶

20% lower power consumption⁶

213% better performance per watt⁶

Challenge

92% of SaaS companies consider scalability their top priority⁷ when expanding their infrastructure. Servers need to be fast, agile, and energy efficient to keep pace with the industry.



Solution

Discover insights more efficiently with next-gen Micron® DDR5 Server DRAM

17% lower latency for AI inference as compared to the previous generation⁸

[Learn more about the DDR5 Server DRAM](#)



Find your fit

Challenge

10.9% projected annual growth rate (CAGR) of global data center market size from 2023 to 2030⁹ means that technological innovations show no sign of slowing down. Maintaining expertise on ever-changing server solutions can prove challenging when your team is tasked with achieving other business goals.

Solution

Collaborate with Micron to find your ideal memory and storage solutions

Micron's experts can become an extension of your team to help you get the most from your data, from cloud to edge. We collaborate with businesses at test labs around the world to design purpose-built solutions tailored to your unique needs. Across the SaaS industry, Micron can give you the tools and knowledge to make superior, data-driven decisions and improve your customer experience.

[Get started at \[microncpg.com/saas\]\(https://microncpg.com/saas\)](#)

1. The Root Causes of Failure for Artificial Intelligence Projects and How They Can Succeed | Rand
2. Complete AI workloads faster using less power with the Micron 9550 SSD | Micron Technology, Inc.
3. Scaling SaaS Infrastructure: Challenges & Solutions | PixelCrayons
4. Technical Brief – Micron 7500 NVMe SSD RocksDB Performance | Micron Technology, Inc.
5. Data Centres and Data Transmission Networks | IEA
6. The Micron 6550 ION offers a capacity of up to 61.44TB. Comparisons are made with other 61.44TB NVMe SSDs from Samsung, Solidigm, and Western Digital. These comparisons use publicly available competitor information from public sources at the time of the 6550 ION announcement, with the 6550 ION and Western Digital using a maximum power of 20W and Solidigm and Samsung at 25W, resulting in up to 20% less maximum power consumption for the 6550 ION.
7. SaaS Statistics | 99Firms
8. Based on JEDEC specifications
9. Data Center Market Size, Share & Trends Analysis Report By Component, By Type, By Server Rack Density, By Redundancy, By PUE, By Design, By Tier Level, By Enterprise Size, By End-use, By Region, And Segment Forecasts, 2023 – 2030 | Grand View Research