



White box servers for financial services



Memory and storage for accuracy, energy efficiency, and real-time data

“Time is money” has never been truer in financial services. Quickly sorting through petabytes of unstructured data is challenging enough, and now data centers are expected to find and deliver insights in real-time.

To meet these demands, businesses are investing heavily in white box servers. According to IDC, spending on high-performance computing (HPC) for financial services is expected to grow by 20% annually¹ as the industry adapts.

Configuring white box servers for financial services requires memory and storage solutions designed to maximize performance, energy efficiency and scalability while making the most of server investments.

Server Solutions

Challenge

70% of financial institutions are in the proof of concept or pilot stage for Generative AI² use cases. Scaling AI efficiently requires high-performance, energy-efficient components.

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 throughput⁴

19% less average SSD power used (watts)³

21% less SSD energy used (joules)³

Challenge

51% of global financial services institutions cite gaining access to real-time data as their highest technology priority⁴ for the next 12 months. Mainstream financial applications require quick data access to achieve timely insights.

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 NCMc SSD](#)



7500 vs competitive offerings

Random read:

59% higher maximum performance⁵
54% better application response time⁵

Random read while writing:

2.1x higher maximum performance⁵
49% better application response time⁶

Challenge

15% increase in compound annual growth rate (CAGR) is projected in data center power demand⁶ from 2023-2030. Data centers will need to adopt energy-efficient technologies to keep operating costs down while increasing performance for AI and other resource-heavy applications.

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 performance⁷

20% lower power consumption⁷

213% better performance per watt⁷

Challenge

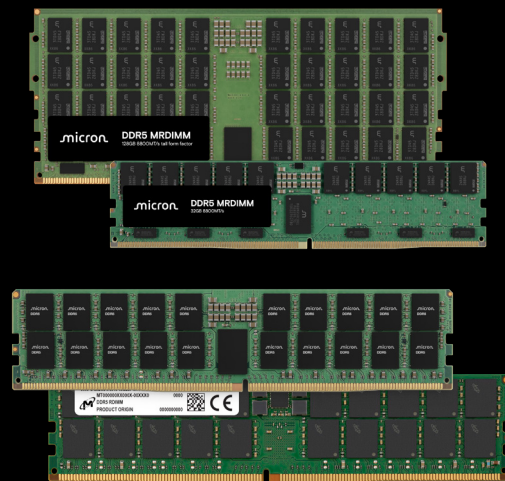
63% of the data financial services firms use for decision-making² is more than 24 hours old. Firms need to gain access to data much faster, even in real time, to keep up with competitive markets.

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

86% of global financial services institutions lack confidence in using their data² to drive decision-making. Leaders need to find ways to reduce doubt and scale business effectively.

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 gain confidence in 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 financial services industry, Micron can give you the tools and knowledge to make superior, data-driven decisions

[Get started at microncp.com/finance](https://microncp.com/finance)

1. Source: IDC Analyst Brief, sponsored by Micron, Datacenter Modernization in the Capital Markets Delivers Speed, Scale, and Security, doc #US53238125, March 2025
2. The impact of AI in financial services | UK Finance
3. Complete AI workloads faster using less power with the Micron 9550 SSD | Micron Technology, Inc.
4. The Top Data and Technology Challenges in Financial Services | InterSystems
5. Technical Brief – Micron 7500 NVMe SSD RocksDB Performance | Micron Technology, Inc.
6. Generational Growth: AI, data centers and the coming US power demand surge | Goldman Sachs
7. 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.
8. Based on JEDEC specifications