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Super Micro Computer announces the SSG-1029P-NMR36L-- an all-flash NVMe storage server optimised to support Samsung NF1 form factor SSDs, making a server holding up to 576TB of all-flash storage in a one rack unit.

The Samsung NF1 form factor (formerly known as NGSFF and M.3) is designed for high capacity network storage applications demanding the best latency performance. NF1 devices have an optimised low power profile and are hot-swappable, meaning more processing power can go towards drive IO with the fastest CPU and memory available.

The Supermicro all-flash 36-drive 1U system supports dual Intel Xeon Scalable processors up to 205W (up to 56 cores) and 24 DIMMs for up to 3TB of system memory. It also supports two 16-lane PCIe high-performance network cards, allowing for sufficient network bandwidth to drive storage performance in software-defined storage environments and applications such as data ingest and playback for analytics and AI. The system also supports remote system on/off and system management, as well as remote power cycling for each drive.

"At Supermicro, we consistently offer our customers early access to the very latest and best technologies," the company says. "Our 1U NF1 storage server features the most power efficient, next-generation flash technology with the highest storage density and best IOPS performance. This provides a real time-to-value competitive advantage for users with data-intensive workloads like Big Data, autonomous driving, AI, and HPC applications."

The SSG-1029P-NMR36L is shipping now.

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