

Memblaze Releases 32TB High-Capacity Enterprise SSD

Memblaze new PCIe 4.0 NVMe enterprise SSD PBlaze6 6930, provides up to 1,600K IOPS 4K random read performance, presents more enterprise security features and higher reliability, and a maximum user capacity of 30.72TB.



Beijing, China Jan 10, 2023 ([IssueWire.com](https://www.issuewire.com)) - Memblaze today officially released the new PCIe 4.0 NVMe enterprise SSD PBlaze6 6930 for data center applications. It provides up to 1,600K IOPS 4K random read performance, presents more enterprise security features and higher reliability, and has a maximum user capacity of 30.72TB. All these features will better support cloud computing, big data, artificial intelligence, and other I/O-intensive applications.

"With the explosive growth of data, the demand for high capacity and performance enterprise SSDs is increasing. The new PBlaze6 6930 not only signifies further breakthroughs in performance and reliability, but also offers the capacity up to 32TB, allowing customers to easily cope with the increasing demand for data usage, and obtain higher data density and energy efficiency." — Dr. Taile Zhang, CEO of Memblaze.

Ultimate Performance, Further Accelerate Applications for Data Centers

The PBlaze6 6930 Series NVMe SSD adopt 176-layer TLC NAND, optimized by hardware design and

self-developed MemSpeed 4.0 technology set to achieve further improvement in IO performance and power consumption ratio.

PBlaze6 6930 offers up to 1,600K/680K IOPS 4K random read/write performance, 7.1GB/s 128K sequential read bandwidth, and 7.0GB/s 128K sequential write bandwidth, all of these have reached the leading level of current PCIe 4.0 SSDs.

With 4K read/write latency reduced to 69/9 μ s, combined with multi-core optimization, I/O intelligent scheduling algorithm, dynamic smoothing algorithm, and Flash-Channel QoS optimization technologies, PBlaze6 6930 can bring faster response time and provide a guarantee for stable business operation.

Power consumption is further optimized, providing five levels of Power Management from 12W to 25W.

Up to 32TB, With Higher Capacity and Endurance Lifetime

The PBlaze6 6930 series support 25.6TB and 30.72TB user capacities, which can bring more than 700TB of storage capacity on a standard 2U server, allowing customers to achieve more metrics such as storage capacity, I/O performance, endurance lifetime, and power consumption ratio with less hardware investment.

It also supports 6.4TB, 7.68TB, 12.8TB, and 15.36TB capacities, and provides 1.5 DWPD and 3.3 DWPD models to satisfy the needs of diverse users.

Based on MUFP, High-Reliability Guaranteed

PBlaze6 6930 is developed based on Memblaze's self-developed MUFP (Memblaze Unified Framework Platform). With the help of MUFP's excellent cross-platform firmware algorithm, it realizes the perfect inheritance of the firmware functions and reliability from previous products. The in-depth optimization of its own hardware further facilitates full performance utilization and delivers higher reliability.

Rich Enterprise Features, Make Data Safe

PBlaze6 6930 Series NVMe SSD support NVMe 1.4 specification, provides Full Data Path Protection, NVMe-MI for Out-of-band Management, Telemetry, Persistent Event Log, Sanitize, Firmware Upgrade without Reset, AES Data Encryption, Secure Boot, and other important features.

PBlaze6 6930 adopts U.3 interface, and provides support for both U.2 and U.3 backplanes. It can be used directly on existing servers or replaced by SAS/SATA disks in the same slot with the three-mode controller.

About Memblaze

Memblaze is a leading provider of enterprise-class SSD products and solutions. Founded in 2011, Memblaze has been committed to independent development and innovation, owning over 200 flash technology patent applications. The PBlaze series enterprise-class SSD launched by Memblaze has been widely used in database, virtualization, cloud computing, big data, artificial intelligence, and other fields, providing stable and reliable high-speed storage solutions for Tencent, JD, Meituan, and China Telecommunications, among other companies.

Media Contact

Beijing Memblaze Technology Co., Ltd.

contact@memblaze.com

+86 10-82894206

Building B2,Dongsheng Park, 66 Xixiaokou Road, Haidian District, Beijing, China

Source : Beijing Memblaze Technology Co., Ltd.

[See on IssueWire](#)