

POWER-EFFICIENT GREEN TECHNOLOGY

The FS1600 node's power consumption with 24 SSDs is 750 W (typical) and 850 W (peak). Performing at 71 MBps/W and 17,647 IOPS/W, the FS1600 is the most power-efficient storage node in the market today.

ECONOMICS REIMAGINED—UNLOCKING NEW POSSIBILITIES

The breakthrough performance of the FSC provides economic savings. For example, the FSC employs erasure coding to deliver data durability and resiliency. Erasure coding offers the same level of durability as replication but requires a much lower capacity overhead. The FSC also achieves media savings by (1) allowing storage to be pooled, improving capacity utilization; (2) enabling parallel accesses to high demand content, obviating the need for duplication; and (3) attaining better data reduction factors and throughput with hardware accelerated compression. With these benefits, the Fungible solution offers 5x media savings compared to hyperconverged-DAS solutions.

Other solutions require many processors in a given form factor to deliver performance, making them expensive and power-hungry. In contrast, the FS1600 node uses only two Fungible DPUs and delivers the highest "processor" efficiency with 7.5M IOPS or 30 GB/s per DPU. The FSC delivers 96.5% Performance Efficiency Percentage (PEP)³. The FS1600 is the densest and most cost-effective storage target in the market. And the FSC delivers the industry's best \$/IOPS, \$/throughput (GBps), \$/IOPS/Effective-GB, and \$/W.

PRODUCT USE CASES

Cloud-native storage for HyperDisaggregation: The FSC offers cloud providers a compelling alternative to conventional storage. By disaggregating storage, the FSC enables independent scaling of compute and storage, increased utilization, reduced server SKU, reduced management complexity, and increased agility. Its performance characteristics are well suited for performance-hungry and latency-sensitive applications such as high performance databases, parallel file systems, AI/ML, and analytics, while its performance density offers consolidation, flexibility, and cost efficiencies.

The FSC also delivers, without performance penalties, efficient data durability, data reduction, and security features that are required for reliable, secure multi-tenant environments of any size. Service providers can now deploy true elastic storage that can dynamically adapt to performance and capacity changes.

Artificial Intelligence / Machine Learning: Modern AI/ML workloads typically require massive parallelism in performance, low latency, and large capacity. The FSC, combined with highly scalable parallel file systems, eliminates storage bottlenecks to achieve unprecedented performance, latency, and efficiency for these modern workloads.

ABOUT FUNGIBLE

Silicon Valley-based Fungible is reimagining the performance, economics, reliability and security of today's data centers.

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Cloud-native high-performance databases: Many of today's databases deploy DAS to meet latency requirements. These databases typically offer durability through clustered redundancy schemes such as replica sets or primary-secondary configurations. If a server fails, data is preserved on another server. The FSC preserves DAS-like latencies while offering improved storage utilization and clustered-redundancy, but at a lower capacity overhead. The FSC in-line line rate data reduction capabilities also significantly reduce capacity requirements.

Analytics: Data-centric organizations consider analytics a central component of their business strategy. Big Data platforms aim to offer quick and meaningful insights, but struggle to cope with the surge in data volume and the demand for real-time response. The FSC addresses the requirements of modern analytics by delivering a storage cluster that is highly performant and massively parallel, offering real-time responses and insights. With the flexibility of the FSC, organizations can add additional storage to new or existing analytics clusters without disrupting operations.

The Fungible Storage Cluster delivers a no-compromise high performance, secure storage solution that meets the most demanding application requirements, supports business agility and significantly improves ROI. To learn more about the Fungible Storage Cluster, download the [FS1600 product brief](#) and [Composer product brief](#). For additional information and a demo, contact sales@fungible.com.

PHYSICAL

FS1600 Node

- Support for up to 24x U.2 NVMe/TCP SSD bays, with raw capacity options of 46, 92, and 184 TB per FS1600 node
- H x W x D: 3.5" (88 mm) x 17.4" (440 mm) x 30.6" (776 mm)
- Weight: 43.4 lb (20 Kg) without SSDs
- Rack unit: 2 RU
- Power input/supply: (Redundant) 2 x 1500 W AC to DC power-factor-corrected (PFC), Universal Input Voltage Range: 90–246 VAC
- Power usage: 750 W/node (typical), 850 W/node (peak)
- Network: 12 x 100 Gb/s Ethernet ports
- Management: 1 x 1/10 Gb/s Ethernet port, 1 x 1Gb/s Ethernet IPMI/BMC port

Fungible Composer node

- H x W x D: 1.7" (43 mm) x 17.2" (437 mm) x 28.5" (724 mm)
- Weight: Net: 26 lb (11.8 kg) / gross: 41 lb (18.6 kg)
- Rack unit: 1 RU
- Power input/supply: (redundant) 2 x 750 W AC to 100–127 VAC, 50–60 Hz; 20–240 VAC, 50–60 Hz
- Power usage: 700 W (peak)
- Network: 4 x 1 G (4 x RJ-45 GbE ports), 2 x 10/25G NIC

³ Learn more about Performance Efficiency Percentage.