

ATTO FibreBridge™ Storage Controller

Build Your Own Private Cloud Storage

FibreBridge 7500 Storage Controller

- Hardware storage controller
- Over 1.47 million 4K IOPs per controller pair
- < 4 Microseconds of latency
- Up to 6.4 GB/s throughput
- 16Gb Fibre Channel to 12Gb SAS
- Parallel data processing
- All reads/writes hardware accelerated
- Use with all SSD or SSD/HDD mix
- Add up to 240 SSD or HDD devices
- Up to 1.44 petabytes capacity
- End to end data protection
- Input 85-264 VAC, 0.5A (typical), 47-63 Hz

Features

- Ethernet based GUI
- Phone Home
- Patented SMP Mapping
- Read/Write Buffer commands
- Robust Event Logging
- Secure Protocols
- PCIe analyzer
- SNMP, SNTTP
- IPv6, IPv4
- Passthrough for self-encrypted drives

Fibre Channel

Fibre Channel is the fastest, most efficient low latency clustered interconnect for storage connectivity which allows immediate transfer of data to and from multiple initiators.

Reduced CapEx and OpEx

- Use low cost COTS SAS JBOD Storage
- Create High Density Storage
- Integrates with Software Defined Storage solutions
- Lower maintenance costs
- Pay as you grow
- Longer useful life
- Plug and play

Private Cloud: Architect a storage solution on your terms

A Private Cloud is a networked storage solution that's used and managed by a single organization, with access blocked from the public cloud in order to keep data secure. ATTO's FibreBridge 7500 Storage Controller serves as a platform for building out a Private Cloud. The 7500's ability to combine Fibre Channel SAN technology with off-the-shelf SAS JBOD storage enables both high performance and reduced total cost of ownership. SANs centralize storage, support server virtualization, and are used regularly in Enterprise IT due to their guaranteed data delivery, low latency and scalability attributes. The FibreBridge 7500 adds robust management features to that list, along with a common set of services for SAS and SATA drives so they do not require operating system support.

Software Defined Storage

Storage arrays that provide in-box software features (deduplication, compression, replication, RAID, etc.) typically add significant latency and also burden the array's CPU by making it handle processing in addition to all data movement. When used with a storage controller such as the ATTO FibreBridge 7500, Software Defined Storage allows for features to be added and managed outside the storage array, which results in faster performance and lower latency. Software Defined Storage enables storage controllers to be storage controllers again.

Storage Virtualization

SANs use physical disks assembled in an array and managed by the SAN storage controller. Access to LUNs within the SAN is managed by the controller, or by a Fibre Channel switch which effectively virtualizes storage. These controllers have been integrated into storage arrays with software features that add cost to each array. The ATTO FibreBridge 7500, in contrast, is an external rack mount storage controller that aggregates low cost off-the-shelf JBOD storage, permitting IT Architects to build their own solution with no limit on capacity, configuration or brand of storage used. Separating the drives and enclosures from the storage controller also gives administrators immediate visibility into the physical locations of disks and the data contained on them.

Lower TCO and Decrease Latency with ATTO Storage Controllers

When Fibre Channel disk drives were still being manufactured, native vendor-specific storage enclosures were used to take advantage of Fibre Channel's low latency and guaranteed delivery of data. Later on, new arrays incorporating a Fibre Channel-to-SAS bridge gave administrators the option to combine SAS/SATA disk drives with Fibre Channel. But a problem with that approach was high TCO compared with solutions that used modular, off-the-shelf components. ATTO's FibreBridge Storage Controllers are building blocks that add Enterprise management and Fibre Channel connectivity to up to 10 shelves of low-cost SAS/SATA drives while introducing only < 4 microseconds of latency. When paired with standard JBOD enclosures, the FibreBridge represents a foundational data center component—one that companies can use to architect high capacity, high performance, low latency Private Cloud storage solutions.

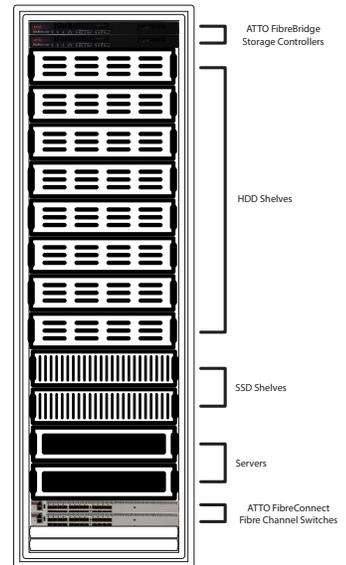


Figure 1 - Dual 7500 Storage Controllers with 10 shelves of SSD/HDD storage connected to a server cluster via 16Gb Fibre Channel. The servers then connect to clients via 10Gb Ethernet.

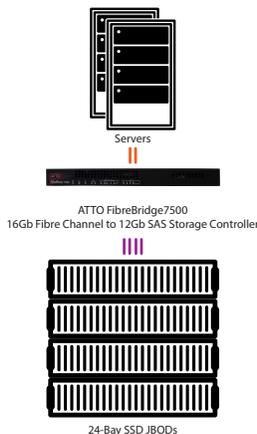


Figure 2 - All SSD Configuration with a single 7500 Storage Controller achieving up to 735,000 4K IOPs