



Not all SAS/SATA host bus adapters are alike. We engineer our products to minimize storage latency giving you the fastest data throughput (both MB/s and IOPs) available for today's demanding computing environments. Whether you need connectivity for Flash storage, direct-attached disks, SAS-based RAID arrays or tape storage, you can trust ATTO's reliable HBA connectivity solutions. Some additional features include:

- Optimized for extremely low latency - perfect for Flash based storage
- Advanced Data Streaming (ADS™) technology for low-latency, smooth data streaming
- Connects easily to disks & tape, JBOD, RAID storage arrays and Flash storage
- ConfigTool™ tools enables management, monitoring & configuration with an intuitive GUI.
- NUMA support for high performance multiprocessor applications
- Target mode and other driver customization options available (OEM only)

Power Center Pro RAID Integrated RAID Software Solution for 12GB SAS HBAs

KEY ADVANTAGES – HIGH PERFORMANCE, COST-EFFECTIVE DATA PROTECTION, SIMPLE USER INTERFACE

For 30 years, ATTO has been an innovator in storage and network connectivity, from developing the first solid state storage device to the latest data center appliances. ATTO develops high-performance products that manage latency in the most demanding real-time environments, resulting in accelerated application performance and enhanced transaction processing. ATTO delivers performance based solutions to applications, infrastructure, Big Data, Cloud and virtualized environments.

ATTO Power Center Pro provides RAID 0, 1, 1e and 10 capabilities for internally-mounted disk drives. This feature is often required for end users often need to add a level of performance or protection to a boot drive group. With Power Center Pro RAID, you can protect a boot group against drive failure, or if you'd like to achieve faster boot times, you can bundle several drives together to improve overall performance. Additionally, Power Center Pro may be used to set up a server storage for general use. These are just a few examples of the many ways to use Power Center Pro to provide a cost-effective option that adds performance and protection to your storage architecture.

Third party RAID software packages are often inefficient and complicated to use, built-in operating system solutions provide limited capabilities, and full-featured RAID adapters are expensive and complicated to use. Power Center Pro is easy-to-use and self-contained on the HBA with no additional software required for RAID group set-up and management.

Power Center Pro:

- Provides full boot capabilities
- Offers EFI and CU-based user interfaces
- Provides enterprise RAID capabilities at a fraction of the cost of a RAID adapter
- Maintains persistent RAID group information so that they are portable to other supported ATTO 12Gb HBAs.

Performance and protection with RAID 0, 1, 1e and 10 solutions

When used with your ExpressSAS 12Gb HBAs, Power Center Pro is a cost-effective way to improve performance and protect your data. RAID is a method of grouping together multiple HDD or SSD disks to make a single, logical disk. It adds performance, management capabilities, increased storage capacity and, depending on the type of RAID selected, it also adds a data protection, fault tolerance and increased availability.

- RAID 0-two physical drives are used to create a single, virtual drive that has the capacity of the combined drives as well as additional performance as 1/0 is distributed between the drives. While there is a significant performance improvement, RAID 0 does not offer any level of data protection.

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ABOUT ATTO TECHNOLOGY, INC.

For 30 years, ATTO Technology, Inc. has been a global leader across the IT and media & entertainment markets, specializing in storage and network connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO works with partners to deliver end-to-end solutions to better store, manage and deliver data. Working as an extension of customer's design teams, ATTO manufactures host and RAID adapters, network adapters, storage controllers, Thunderbolt™ adapters, and software. ATTO solutions provide a high level of connectivity to all storage interfaces, including Fibre Channel, SAS/SATA, iSCSI, Ethernet, NVMe, NVMe over Fabrics and Thunderbolt. ATTO is the Power Behind the Storage.

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- RAID 1—using two physical drives, an exact copy (mirror) of the data is maintained. It has a 50% storage efficiency and provides protection from a single drive fault.
- RAID 1e and 10—three, or more, drives are combined to provide performance and data protection. RAID 1e groups are created with an odd number of drives, while RAID 10 groups have an even number of drives. Storage efficiency is 50% and a RAID group can withstand the failure of at least one drive without data loss. These RAID groups can easily be expanded if more capacity is required, and they provide or either configuration. RAID 1e and 10 provide better read and write performance than a RAID 1 group.

Easy-to-Use Interface Simplifies RAID Group Set-Up and Monitoring

Power Center Pro is managed using a simple CU-based interface since most users want an easy-to-use 'set it and forget it' interface. With a few, easy commands, your RAID group can be set up and ready to use. If you ever need to manage or monitor performance of your RAID group, you use the same CU interface. Everything is self-contained. There is no additional software or operating system configuration. It all happens right on the ATTO ExpressSAS® HBA.

Advanced Data Streaming (ADS)™

Power Center Pro works in conjunction with ATTO Advanced Data Streaming (ADS)™ technology, the latency management technology that's built into ATTO HBAs. ADS manages latency by providing controlled acceleration for smooth data streaming to maintain the highest consistent performance, ensuring best-in-industry data transfers for highbandwidth applications.

How it works

Power Center Pro automatically detects attached storage and sets up RAID groups based on customer input and built-in optimization algorithms. RAID groups are generally configured as depicted below:

