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## **Cybernetics Improves Disk Storage Performance and Reliability with SATA**

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May 27, 2004, Yorktown, Virginia – Cybernetics has begun shipping SATA models of its popular RAID disk storage solutions for direct SCSI and iSCSI network attachment, as well as HSTC™ and V-Lib virtual tape D2D2T backup solutions. Serial ATA is a robust, point-to-point architecture with significant performance and reliability benefits over previous generation parallel technology.

Cybernetics SATA InstaRAID, iSAN® Vault, HSTC™-RAID and V-Lib models are designed with independent 1.5Gb/s channels to each disk drive in the array to maximize speed. Serial ATA data transfers result in a vast improvement in both speed and reliability. In contrast to parallel data transfers of 16 synchronous signals, SATA packages bits into packets and transfers each packet at many times the speed with a point-to-point connection. Where the previous generation parallel ATA used wide 80-wire cables with two-inch 40-pin connectors, the new serial ATA data transfer method is accomplished over a thin seven-wire noise cancelling cable with a connector that is less than one-half inch wide. These smaller, thinner connectors and cables result in improved air-flow and greatly improved data integrity. The serial transfer is full duplex with just two data channels, capable of sending and receiving simultaneously without electromagnetic interference.

SATA supports enhanced CRC for data and commands, as well as command queuing, a feature heretofore typically only found in far more expensive SCSI and Fibre Channel disk drives. SATA uses LVD signaling with a voltage of .25 volts, for reduced EMI and one tenth the power consumption of the 5 volt requirement for parallel. In spite of the tremendous features and benefits of the new Serial ATA technology, the cost advantage is stunning. SATA disks are typically 75% lower in cost than SCSI disk drives of comparable capacity. Cybernetics offers a wide range of RAID disk storage and backup solutions, delivering leading edge enterprise features at pricing within reach for small to medium sized businesses.

Based in Yorktown, Virginia, since 1978, Cybernetics manufactures, supports, and services a complete family of disk-based storage and backup solutions. Cybernetics is recognized in the United States and around the world as a pioneer in data storage technology, specializing in industry-first features that vastly improve the performance of tape and disk subsystems.

**For more information, contact Cybernetics at (757) 833-9000, or visit [www.cybernetics.com](http://www.cybernetics.com)**