Micron® Shared PCIe SSD Technology

Shared Data, PCIe SSD Performance

PCIe SSD – The Device of Choice for the Enterprise Server and Storage Market

As solid state drives (SSDs) continue to gain ground in the enterprise server and storage market, PCI Express® (PCIe) devices are emerging as the high-performance device of choice. Micron’s low-latency, high-IOPS RealSSD™ P320h PCIe drive provides the highest read throughput in the industry, combined with extended endurance, exceptional reliability, and remarkable power efficiency. It’s an ideal solution for optimizing applications with heavy read access (for example, Web accelerators, media streaming and video-on-demand servers, and data warehousing).

Limitations of Dedicated PCIe SSDs

In today’s dynamic data centers, a fixed amount of SSD storage for each server is not always the best solution. Companies with high-performance computing needs rarely have static environments. Applications, servers, users, and configurations are constantly changing. Predicting the amount of SSD storage required is nearly impossible.

Target Applications:

Micron’s shared PCIe SSD technology targets applications requiring high performance and enterprise-class storage reliability, as well as those served by stand-alone SSDs, including:

- High-performance databases
- Server virtualization
- Virtual desktop computing
- Enterprise reporting and data mining
- Financial transaction schemes
- Web server caching
- 3D animation/rendering
- CAD/CAM applications

P320h enterprise
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The Power of Micron PCIe Sharing Technology

Micron’s PCIe sharing technology is used to share a pool of PCIe SSDs across multiple servers, providing the performance and latency of a PCIe SSD with the flexibility of a shared storage device. This technology can also optimize PCIe SSD deployment by helping to eliminate unnecessary PCIe capacity, improving performance, and reducing costs.

4 Benefits of Using Shared PCIe SSDs in Data Centers

• Exceptional Performance: Technology that provides shared data with PCIe SSD performance.
• Centralized Management: Activities that previously required physical equipment changes are performed through a simple, central software GUI.
• Improved Utilization: SSDs are pooled and shared across multiple applications, increasing their utilization.
• Lower Costs: Consolidation of hardware and I/O components lowers costs, including equipment, power, and cooling costs.

Contact Us

High-performance NAND devices are available now. To find out more about product specifications, visit: micron.com/ssd

To find out more about SSD sharing, visit: micron.com/iov

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