

SUN FLASH ACCELERATOR F80 PCIe CARD

IDEAL FOR DATABASES AND I/O INTENSIVE APPLICATIONS

KEY FEATURES

- 800 GB capacity
- 155K random IOPS (8K), 2.1 GB/sec throughput performance
- 84 microsecond write latency (8K transfer size)
- Advanced write endurance and proactive health monitoring
- Enterprise quality and reliability
- Optimized with Oracle's systems and software.
- Compatible with Oracle's Database Smart Flash Cache and Advanced Compression

KEY BENEFITS

- Increase application performance, productivity and business response
- Eliminate I/O bottlenecks
- Improve server efficiency
- Reduce power and space



Oracle's Sun Flash Accelerator F80 PCIe Card accelerates applications and server performance by reducing storage latencies and increasing I/O throughput for greater productivity and business response. With consistent low latency

and high random IOPS performance, the Sun Flash Accelerator F80 PCIe Card helps servers and their applications run faster and more efficient while reducing power and space

Accelerating Your I/O Starved Applications

Today's demanding, high-performance applications increasingly are being starved by slow storage I/O, resulting in poor application performance and business response. The Sun Flash Accelerator F80 PCIe Card is designed to deliver extremely high I/O performance with consistently low latency and minimum CPU burden to help accelerate applications and eliminating storage I/O bottlenecks, whether used as in-server flash cache or storage.

High Performance and Reliability

The Sun Flash Accelerator F80 PCIe Flash Card is built on the latest enterprise-class solid-state technology with advanced controllers and sophisticated error correction features to help deliver consistently high level of performance, endurance and reliability under some of the most demanding conditions. The Sun Flash Accelerator F80 PCIe Card deliver performance that equals hundreds of spinning hard disk drives (HDD) in a single low-profile PCIe slot with no moving parts for greater reliability and power efficiency.

High Endurance and End-to-End Data Protection

The Sun Flash Accelerator F80 PCIe Cards uses enterprise-rated, high-endurance NAND (eMLC) technology. Advanced on board controllers extend write endurance up to 20x that of standard flash controllers for greater reliability. Sophisticated algorithms provide advanced error-correction, over-provisioning, and wear leveling for improved efficiency and data integrity. Battery-less power fail protection and circuitry provide end-to-end data protection and fast (5 seconds) power fail recovery. Proactive heath monitoring features provide an added level of security and durability.

Oracle Optimized

Oracle's Sun Flash Accelerator F80 PCIe Card is optimized for Oracle's systems and software to deliver the highest level of performance, efficiency, reliability, and ease-of-use.



Sun Flash Accelerator F80 PCIe Card Specifications

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Capacity	
Usable Capacity	800 GB
Domains	4 domains/SSD devices
NAND Type	Enterprise Multi-Level Cell (eMLC)
Performance *	
Random Read IOPS (8K)	155,193
Random Write IOPS (8K)	133,390
Read Bandwidth (1M)	2.099 GB/sec
Write Bandwidth (1M)	1.254 GB/sec
Write Latency (8K)	84 microseconds
Read Latency (8K)	230 microseconds
Technology	
Interface	PCI Express 2.0 (x8)
Flash Controllers	4 x 6Gb/s SAS/SATA2 controllers (1 per domain)
Form Factor	Low profile PCIe (2.7 x 6.6 inches)
Reliability	
MTBF	Over 1M hours
Health Monitoring Feature	Proactive self-monitoring, SMART analysis and reporting, Flash monitoring
Power	
Max Power	25 W max (11.5 W idle)
Environmental	
Operating Temperature	0 to 74 C measured at the card temp sensor
Relative Humidity	5% to 90%, non-condensing, 200 LFM airflow req.
Altitude	10,000 feet operating max.
Compliance	RoHS-6, US/Canada UL, Europe TUV safety
Compatibility	
Servers and Operating Systems	Qualified Sun servers and Operating Systems

* Using compressible data (1.25:1)

Contact Us

For more information about the Sun Flash Accelerator F80 PCle Card, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.



Oracle is committed to developing practices and products that help protect the environment

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Hardware and Software, Engineered to Work Together

