EPX Series

M.2 22110 | NVMe PCIe SSD

KEY BENEFITS

- End-to-End Data Protection
- Ultra-low Latencies
- Power Loss Protection
- RAIFE Technology
- Machine Learning: Intelligent Read Retry

APPLICATIONS

- Financial Transactions
- SQL Logging
- Email/Messaging Servers
- Online Transaction Processing (OLTP)
- E-Commerce

FAST, CONSISTENT PERFORMANCE

The EPX PCIe SSD Series is a compact, power-efficient solution that fits directly into a PCIe bus slot and provides fast and reliable access to data without burdening the host CPU and memory resources. It delivers superior random read/write speeds of up to 460,000/60,000 IOPS. With ultra-low latency, only reaching 30/30 μs, the EPX ensures the quickest and most consistent command response times.

END-TO-END DATA PROTECTION

From the instant data is stored on our SSD, its integrity is double checked on multiple points along the data path. This guards against data corruption or error.

POWER LOSS PROTECTION

Power outages are a nightmare, but EPX helps reduce data loss from this universal problem by including a Power Loss Protection circuit. In the event of an unsafe power failure, this circuit enables the drive to save all cached data before shutting down.

1st GEN MACHINE LEARNING – INTELLIGENT READ RETRY

Our first generation Intelligent Read Retry is improved with machine learning which uses the best settings first, as determined by the machine learning algorithms, to most likely recover the data.

REDUNDANT ARRAY OF INDEPENDENT FLASH ELEMENTS (RAIFE)

RAIFE enables advanced error correction and data protection. Every data that is entered through the SSD will be protected by parity, so data can be recovered beyond standard ECC protection.

EPX Series NVMe PCIe SSD

	EPX-KW960
Configuration	
Capacity	960 GB
Interface	NVMe PCIe Gen 3 x4
Form Factor	M.2 22110 (110.0mm x 22.0mm x 4.0mm) @ 18g Max
Performance	
Sequential Read/Write[1]	1,700/750 MB/s
4K Random Read/Write[1]	460K/60K IOPS
Latency Read/Write[1]	30/30 µs
Reliability	
UBER[2]	1 error in 10^{17} bits transferred
End-to-End Protection	Supported
Power Loss Protection	Supported
MTBF[3]	2 million hours
Endurance	
DWPD[4]	Up to 1.3 Drive Writes per Day for 3 Years
Data Retention	Up to one (1) month
Power Consumption	
Idle	< 2.4 watts
Active	< 8.25 watts
Environment	
Operating Temperature	0 to 55°C
Non-operating Temperature	-40 to 85°C

Specifications and data are subject to change without notice. Product image is sample only. Not actual product.
[1] Based on internal testing, performance, may vary depending on host device, OS and application [2] UBER - Unrecovered Bit Error Rate [3] MTBF - Mean Time Between Failures based on parts stress analysis
[4] Standard 3-year warranty

For more information, please visit:

ssstc.com

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Solid State Storage Technology Corporation (SSSTC) is a global leader in the design, development, and manufacturing of Solid State Drives (SSDs). SSSTC offers customized solutions to PC Client, Industrial Solutions, Enterprise/Data Center, and Cloud and Edge Computing markets.

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