ED1 Series

U.2 | NVMe PCIe SSD

KEY BENEFITS

- Power Loss Protection
- NVMe MI
- Low Power

APPLICATIONS

Financial Transactions

SQL Logging

Email/Messaging Servers

Online Transaction Processing (OLTP)

E-Commerce

IOT

FAST, CONSISTENT PERFORMANCE

The ED1 PCIe SSD series comes in a U.2 form factor and offers high I/O and throughput performance. It is hot-pluggable to allow swapping the device without having to shut down the system. ED1 delivers superior random read/write speeds of up to 665,000/100,000 IOPS. With ultra-low latencies, only 95/19 µs, it ensures the quickest and most consistent command response times.

POWER LOSS PROTECTION

To help reduce data loss from unsafe power outages, ED1 includes a Power Loss Protection (PLP) circuit which enables the drive to save all cached data before shutting down.

1st GEN MACHINE LEARNING – INTELLIGENT READ RETRY

We are the first SSD vendor to productize the power of machine learning into SSD flash management. Introducing, Intelligent Read Retry. Standard read retry algorithm performs read retry from the lowest setting to the highest setting in a sequential fashion. Intelligent Read Retry uses the best settings first, as determined by the machine learning algorithms, to recover the data.

ED1 Series NVMe PCIe SSD

	ED1-2W1920	ED1-2W3840
Configuration		
Capacity	1920 GB	3840 GB
Interface	PCIe Gen 3 x4, NVMe 1.2	
Form Factor	U.2 15mm	
Performance		
Sequential Read/Write[1]	3,050/1,800 MB/s	3,050/2,000 MB/s
4K Random Read/Write[1]	660K/90K IOPS	665K/100K IOPS
Latency Read/Write[1]	95/19 µs	
Reliability		
UBER[2]	10^{-17}	
Power on/off cycles	50,000 cycles	
MTBF[3]	2 million hours	
Endurance		
DWPD[4]	Up to 1 Drive Write per Day for 5 Years	
Data Retention	3 months power-off retention under below conditions: a. Drive is at the end of its life b. Temperature is no greater than 40° C while the drive is unpowered.	
Connectivity		
# of Ports	Single Port	
Power Consumption		
Idle	2.4 watts	
Active	12 watts max (rms)	
Environment		
Operating Temperature	0 to 70°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 5-year warranty

For more information, please visit:

ssstc.com

HEADQUARTERS
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Solid State Storage Technology Corporation.

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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