



LJ1 Series

U.2 | NVMe PCIe SSD

KEY BENEFITS

- PCIe Gen 4x4
- Power Loss Protection
- Secure Download
- Temperature Sensor
- Thermal Throttling
- Hot Pluggable
- Namespace Management

APPLICATIONS



Financial Transactions



SQL Logging



Email/Messaging Servers



Online Transaction Processing (OLTP)



E-Commerce



IOT

PCIe GEN 4 ADVANTAGE

The LJ1 SSD series boasts of the latest PCIe Gen 4x4 interface that delivers 2x faster data transfer rates than the Gen 3 version, up to 8GB/s, making it ideal for data center and high-speed consumer applications. LJ1 delivers superior random read/write speeds of up to 800,000/ 160,000 IOPS. With ultra low latencies reaching only 80/15 μ s, it ensures the quickest and most consistent command response times.

POWER LOSS PROTECTION

To help reduce data loss from unsafe power outages, LJ1 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.

Namespace Management

With support for up to 32 namespaces, LJ1 makes it easy to deploy flexible namespace configurations for various applications. Data stored in one namespace is isolated from other namespaces and can be accessed, modified, or deleted without affecting other namespaces.

LJ1 Series NVMe PCIe SSD

	LJ1-3840	LJ1-7680
Configuration		
Capacity	3840 GB	7680 GB
Interface	PCIe Gen 4x4	
Form Factor	U.2 15mm	
Performance		
Sequential Read/Write ¹	5,000/4,100 MB/s	5,000/4,000 MB/s
4K Random Read/Write ¹	800K/160K IOPS	800K/150K IOPS
Latency Read/Write ¹	80/15 μ s	80/15 μ s
Reliability		
UBER ²	10 ⁻¹⁷	
Power on/off cycles	50,000 cycles	
MTBF ³	3 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.	
Power Consumption		
Idle	7W (Max)	
Active	25W (Max)	
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.

¹Based on internal testing, performance, may vary depending on host device, OS and application ²UBER - Unrecovered Bit Error Rate ³MTBF - Mean Time Between Failures based on parts stress analysis ⁴Standard 5-year warranty

For more information, please visit:
ssstc.com

HEADQUARTERS
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