



ER2 Series

2.5"/M.2 2280 | SATA 6 Gb/S SSD

KEY BENEFITS

- End-to-End Data Protection
- Thermal Throttling/Sensor
- Power Loss Protection
- High I/O & Throughput Performance
- Hot Pluggable
- Inrush Current Management
- ROHS-Compliant
- Smart Command Set

APPLICATIONS



Financial Transactions



SQL Logging



Email/Messaging Servers



Online Transaction Processing (OLTP)



E-Commerce



Boot

FAST, CONSISTENT PERFORMANCE

The ER2 SATA SSD Series delivers affordability and performance with superior random read/write speeds of up to 90,000/45,000 IOPS. With latencies reaching only 36/36 μ s, the ER2 ensures the quickest and most consistent command response times in the industry. In addition, it offers low active power consumption at only five (5) watts.

END-TO-END DATA PROTECTION

From the instant data is stored on the ER2, its integrity is double checked on multiple points along the data path to against data corruption.

POWER LOSS PROTECTION

Power outages are a nightmare, but ER2 helps reduce data loss from this universal problem with its Power Loss Protection (PLP) circuit. In the event of an unsafe power failure, this circuit enables the drive to save all cached data before shutting down.

HIGH ENDURANCE

By combining NAND management techniques and silicon enhancements, with LDPC error correction, the ER2 achieves up to 1.8 Drive Writes Per Day (DWPD) over five years life. High endurance also means increased drive lifecycle and better reliability.



ER2 Series SATA 6 Gb/s SSD

	ER2-GD240	ER2-GD480	ER2-CD240	ER2-CD480A	ER2-CD960A	ER2-CD1920A
Configuration						
Capacity	240 GB	480 GB	240 GB	480 GB	960 GB	1920 GB
Interface	SATA 6 GB/s					
Form Factor	M.2 2280		2.5-inch, 7mm			
Performance						
Sequential Read/Write ¹	520/300 MB/s	520/520 MB/s	520/300 MB/s	520/520 MB/s	520/520 MB/s	520/520 MB/s
4K Random Read/Write ¹	90K/10K IOPS	90K/15K IOPS	90K/10K IOPS	90K/45K IOPS	90K/30K IOPS	90K/30K IOPS
Latency Read/Write ¹	36/36 μ s					
Reliability						
UBER ²	1 error in 10 ¹⁷ bits transferred					
End-to-End Protection	Supported					
Power Loss Protection	Supported					
MTBF ³	>3 million hours					
Endurance						
DWPD ⁴	1 for 5 Years		1 for 5 Years	1.8 for 5 Years	1.2 for 5 Years	1.2 for 5 Years
Data Retention	3 months power-off retention under below conditions: a. The drive is at the end of its service life b. The temperature is no greater than 40° C while the drive is unpowered.					
Endurance (TBW in PB)	0.43	0.87	0.43	1.6	2	4
Power Consumption						
Idle	1.2 watts					
Read/Write	3.5/3.8 W	3.5/3.8 W	3/3.5 W	3/3.5 W	3.5/4 W	4.5/5 W
Environment (Temperature)						
Operating / Non Operating	0 to 70°C /-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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