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Storage For Industries

SV250-M280 CoreSnapshot 2



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Overview

SV250-M280 CoreSnapshot 2 Client Edition is built with a powerful SATA controller that supports on-the-module ECC as well as efficient wear leveling scheme and implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability. Furthermore, SV250-M280 CoreSnapshot 2 Client Edition is equipped with a built-in thermal sensor to monitor the temperature of the SSD via S.M.A.R.T commands to prevent overheating. For highly-intensive applications, End-to-End Data Protection ensures that data integrity can be assured at multiple points in the path to enable reliable delivery of data transfers. Security-wise, Advanced Encryption Standard (AES) ensures data security and provides users with peace of mind knowing their data is safeguarded at all times.



On top of that, SV250-M280 CoreSnapshot 2 Client Edition features CoreSnapshot 2, a system disaster's savior, to offer an instant whole disk backup and recovery mechanism for SSDs to solve unexpected data loss or OS crash immediately, reducing downtime and maximizing output.

Feature

- Low-Density Parity-Check (LDPC) Code
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T. Function
- DataDefender™
- Device Sleep
- ATA Secure Erase
- TRIM Support
- Hyper Cache Technology
- Over-provisioning
- SMART Read Refresh™

Specifications

| | |
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| Model | SV250-M280 CoreSnapshot 2 |
| Interface | SATA 3.2 (6Gb/s) |
| Connector | 75-pin SATA-based M.2 module pinout 3-pin CoreSnapshot 2 connector |
| Form Factor | Single-sided: M.2 2280-S3-B-M Double-sided: M.2 2280-D5-B-M |
| NAND Flash Type | 3D TLC |
| Capacity | Single-sided: 60GB, 120GB, 240GB Double-sided: 480GB |
| External DRAM | No |
| Sustained Read Performance (MB/sec) | Up to 550 |
| Sustained Write Performance (MB/sec) | Up to 485 |
| ECC Engine | Low-Density Parity-Check (LDPC) Code |
| IOPs (4K Random Write) | 65K |
| Standard Operating Temperature (°C) | 0 ~ + 70 |
| Extended Operating Temperature (°C) | -40 ~ + 85 |
| Storage Temperature (°C) | -40 ~ + 100 |
| Thermal Sensor | Yes |
| Shock | Operation: Acceleration, 50(G)/11(ms)/half sine (compliant with MIL-STD-202G) Non-operation: Acceleration, 1,500(G)/0.5(ms)/half sine (compliant with MIL-STD-883K) |
| Vibration | Operation: 7.69(Grms), 20~2000(Hz)/random (compliant with MIL-STD-810G) Non-operation: 4.02(Grms), 15~2000(Hz)/random (compliant with MIL-STD-810G) |
| Operating Voltage | 3.3 V ± 5% |
| Power Consumption | Active mode: 400 mA / Idle mode: 65 mA |
| Dimension (L x W x H) | Single-sided: 22.00 x 80.00 x 3.03(max.) (mm) Double-sided: 22.00 x 80.00 x 4.53(max.) (mm) |
| MTBF (hours) | >3,000,000 |

