Increase performance and reliability with Samsung Enterprise SSDs

Samsung’s PM863 and SM863 Series SSDs deliver exceptional performance, meeting demanding workloads at a cost-effective price point. With a high number of write cycles and enterprise-class features, these drives are designed for data centers demanding reliability and high performance.

**SAMSUNG PM863 SERIES SSD**
- Designed for read-intensive applications
- Random read speeds up to 99,000 IOPS
- Sequential read speeds of up to 540 MB/s
- Innovative Samsung V-NAND architecture
- Low latency and consistent IOPS
- Solid reliability with sustained high performance under heavy use
- End-to-end protection against data loss
- Energy efficiency with 3-core controllers

**SAMSUNG SM863 SERIES SSD**
- Designed for write-intensive applications
- Up to 3 DWPD (Drive Writes Per Day)
- Sequential write speeds of up to 485 MB/s
- Strong read performance and fast write speeds
- High performance at high IOPS
- Superior temperature resistance

**BOTH DELIVER:**
- Superior PM863 and SM863 architecture
- Strong read performance and fast write speeds
- High performance at high IOPS
- Superior temperature resistance
- High performance at high IOPS

Learn more

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**Which is right for your organization?**

Consumer-class SSDs are designed primarily as replacements for hard disk drives in PCs and are intended for more sporadic use. On the other hand, data center-class SSDs are built to sustain rapid, 24/7 responsiveness.

**Data protection efficiency capabilities vary widely**

Data centers are under strict rules made to ensure data is protected and available whenever required. Data center-class SSDs are designed for data centers to ensure data is protected and available whenever required.

**Consumer-class SSDs vs. Data center-class SSDs**

- **Consumer-class**
  - Lower latency
  - Designed for sustained performance
  - Mixed workload I/O
  - Reduced power consumption
  - Built-in power-loss protection
  - Consistently high input/output operations

- **Data center-class**
  - Higher latency
  - Designed for increased performance
  - Mixed workload I/O
  - Increased power consumption
  - No built-in power-loss protection
  - Consistently high input/output operations

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