Improve data center reliability, 2.5” at a time.

Advanced 2.5” SSD designed for mixed workload applications that require optimal performance and high QoS.

Safeguard critical data while increasing performance. Samsung 883 DCT SSD is the ideal solution. Designed for web servers or data centers, these 2.5” drives offer optimal performance and high quality of service (QoS) under the SATA interface. 883 DCT SSD is available in a variety of capacities ranging from 240 GB to 3.84 TB, and incorporates features that enhance reliability such as power loss protection and end-to-end data protection. Upgrade performance. Upgrade efficiency. Upgrade to Samsung 883 DCT SSD.

Key Features

- **Data Center SSDs, Advanced V-NAND**: Keep your business running 24/7. Attain optimal performance, value and reliability with advanced Samsung V-NAND technology SSDs. They’re produced in-house to stringent standards and are designed specifically to meet the demands of data centers, with added reliability.

- **Easily Upgrade Legacy Infrastructure**: The 2.5” form factor and SATA interface make it simple to upgrade from your legacy storage solution, while maintaining your current infrastructure. No modifications required.

- **End-to-End Data Protection**: End-to-end data protection ensures consistency over the entire data transfer path, greater reliability and peace of mind.

- **Protection from Power Loss**: In the event of power failure, Samsung SSD includes power loss protection to prevent data corruption.

- **Performance Fit for Mixed Workloads**: Give speed to your business presence. Boost performance with faster sequential and random read speeds. Samsung 883 DCT SSD is ideal for all types of storage needs for handling massive amounts of data.

- **Enhanced Operations Efficiency**: Accomplish far more with less. Achieve higher efficiency and performance compared to legacy storage systems, with fewer servers, reduced power and cooling, and lower TCO. Maintenance is more efficient, too, with the provided Samsung SSD Toolkit software.

- **Samsung Quality and Reliability**: Keep going with less downtime. In-house production utilizing our own Samsung-built components allows us greater quality control and manufacturing efficiencies, to produce SSDs of superior quality and reliability. Empower your business to run faster, more efficiently, and with the reduced costs that come from world-class dependability.

Contact Us: samsung.com/b2bssd
## Samsung 883 DCT 2.5” Solid State Drives

<table>
<thead>
<tr>
<th>Usage Application</th>
<th>MZ-7LH240NE</th>
<th>MZ-7LH480NE</th>
<th>MZ-7LH960NE</th>
<th>MZ-7LH1T9NE</th>
<th>MZ-7LH3T8NE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity¹</td>
<td>240 GB</td>
<td>480 GB</td>
<td>960 GB</td>
<td>1920 GB (19 TB)</td>
<td>3840 GB (18.8 TB)</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>3.94” x 2.75” x 0.27”</td>
<td>3.94” x 2.75” x 0.27”</td>
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</tr>
<tr>
<td>Interface</td>
<td>SATA 6 Gb/s (Compatible with SATA 3 Gb/s and SATA1.5 Gb/s)</td>
<td>SATA 6 Gb/s (Compatible with SATA 3 Gb/s and SATA1.5 Gb/s)</td>
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</tr>
<tr>
<td>Form Factor</td>
<td>2.5”</td>
<td>2.5”</td>
<td>2.5”</td>
<td>2.5”</td>
<td>2.5”</td>
</tr>
<tr>
<td>Controller</td>
<td>M4R6</td>
<td>M4R6</td>
<td>M4R6</td>
<td>M4R6</td>
<td>M4R6</td>
</tr>
<tr>
<td>NAND Flash Memory</td>
<td>Samsung V-NAND 3-bit MLC</td>
<td>Samsung V-NAND 3-bit MLC</td>
<td>Samsung V-NAND 3-bit MLC</td>
<td>Samsung V-NAND 3-bit MLC</td>
<td>Samsung V-NAND 3-bit MLC</td>
</tr>
<tr>
<td>DRAM Cache Memory</td>
<td>Samsung 512 MB LPDDR4</td>
<td>Samsung 512 MB LPDDR4</td>
<td>Samsung 1 GB LPDDR4</td>
<td>Samsung 2 GB LPDDR4</td>
<td>Samsung 4 GB LPDDR4</td>
</tr>
</tbody>
</table>

### Performance²

<table>
<thead>
<tr>
<th>128KB Sequential Read (Max.)</th>
<th>560 MB/s</th>
<th>560 MB/s</th>
<th>560 MB/s</th>
<th>560 MB/s</th>
<th>560 MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>128KB Sequential Write (Max.)</td>
<td>320 MB/s</td>
<td>320 MB/s</td>
<td>320 MB/s</td>
<td>320 MB/s</td>
<td>320 MB/s</td>
</tr>
<tr>
<td>4KB Random Read (QD32) (Max.)</td>
<td>98,000 IOPS</td>
<td>98,000 IOPS</td>
<td>98,000 IOPS</td>
<td>98,000 IOPS</td>
<td>98,000 IOPS</td>
</tr>
<tr>
<td>4KB Random Write (QD32) (Max.)</td>
<td>14,000 IOPS</td>
<td>28,000 IOPS</td>
<td>28,000 IOPS</td>
<td>28,000 IOPS</td>
<td>28,000 IOPS</td>
</tr>
</tbody>
</table>

### Weight (Max.)

- 60 g.

### Reliability (MTBF)

- 2 Million Hours

### TBB¹²

- Up to 541 TBW

### Power Consumption³

<table>
<thead>
<tr>
<th>Active Read/Write (Max.)</th>
<th>2.3 W / 3.6 W</th>
<th>2.3 W / 3.6 W</th>
<th>2.3 W / 3.6 W</th>
<th>2.3 W / 3.6 W</th>
<th>2.3 W / 3.6 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idle (Max.)</td>
<td>1.3 W</td>
<td>1.3 W</td>
<td>1.3 W</td>
<td>1.3 W</td>
<td>1.3 W</td>
</tr>
</tbody>
</table>

### Supporting Features

- TRIM Support, Garbage Collection, S.M.A.R.T., AES 256-bit Encryption (Class 0), WNN Support
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### Temperature⁴

- Operating: 32˚ ~ 158˚F (0˚C ~ 70˚C)
- Non-Operating: -40˚ ~ 185˚F (-40˚C to 85˚C)

### Humidity

- 5% to 95%, Non-Condensing

### Vibration (Non-Operating)

- 20~2000Hz, 20G

### Shock (Non-Operating)⁵

- 1500G, Duration 0.5 m/sec, Half-Sine

### Limited Warranty⁶

- 3 Years or SAT TBW

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¹ GB=1,000,000,000 bytes, unformatted capacity. User accessible capacity may vary depending on operating environment and formatting. Performance measured using FIO 2.7 with queue depth 32, Z770 Intel SATA 6G port. Measurements are performed on entire LBA range. Write cache enabled. Performance varies depending on capacity. All documented endurance test results are obtained in compliance with JEDEC standards. Please visit joed.org for detailed information. ²Power consumption measured using FIO 2.14 with Z270 Intel SATA 6G port, CentOS 7, Kernel 3.10.0/327, CPU (Intel® Core™ i7-6700K CPU @ 4.20 GHz) and 16 GB RAM. Active Read power is measured on 4KB random read. Active Write power is measured on 128 KB sequential write. Idle power is measured with DPM off. Operating temperature is measured by SSD temperature sensor (SMART Attribute 194). Proper airflow recommended. °Internal fast fail shock test conducted under controlled conditions. °Warranty 3 years or TBW, whichever comes first. For more information on the warranty, please find the warranty statement enclosed in the package.