

# Samsung 850 Pro MZ-7KE256BW

## 256 GB INTERNAL SOLID STATE DRIVE



- SATA
- 512 MB Buffer
- 550 MB/s Maximum Read Transfer Rate
- 520 MB/s Maximum Write Transfer Rate
- 100000IOPS Random 4KB Read
- 90000IOPS Random 4KB Write
- 1 Pack 10 Year Warranty

### Basic Information

**BRAND NAME:** Samsung  
**BUFFER:** 512 MB  
**DEVICE SUPPORTED:**

- Desktop PC
- Notebook

**DRIVE INTERFACE:** SATA  
**DRIVE INTERFACE STANDARD:** SATA/600  
**DRIVE TYPE:** Internal  
**DRIVE WIDTH:** 2.5"  
**PRODUCT FAMILY:** 850 Pro  
**PRODUCT TYPE:** Solid State Drive  
**STORAGE CAPACITY:** 256 GB  
**WIRELESS LAN:** No

### Drive Performance

**BUFFER:** 512 MB  
**MAXIMUM EXTERNAL DATA TRANSFER RATE:** 768 MB/s (6 Gbit/s)  
**MAXIMUM READ TRANSFER RATE:** 550 MB/s  
**MAXIMUM WRITE TRANSFER RATE:** 520 MB/s  
**RANDOM 4KB READ:** 100000IOPS  
**RANDOM 4KB WRITE:** 90000IOPS

### Drivetrain

**DRIVE TYPE:** Internal

### General Information

**BRAND NAME:** Samsung  
**MANUFACTURER:** Samsung  
**MANUFACTURER PART NUMBER:** MZ-7KE256BW  
**MANUFACTURER WEBSITE ADDRESS:** <http://www.samsungusa.com>  
**PACKAGED QUANTITY:** 1  
**PRODUCT MODEL:** MZ-7KE256BW  
**PRODUCT NAME:** MZ-7KE256BW SSD 850 PRO 2.5" SATA III  
**PRODUCT SERIES:** 850 Pro  
**PRODUCT TYPE:** Solid State Drive

### Interfaces/Ports

**DRIVE INTERFACE:** SATA  
**DRIVE INTERFACE STANDARD:** SATA/600  
**NETWORK (RJ-45):** No  
**WIRELESS LAN:** No

### Memory

**BUFFER:** 512 MB

### Miscellaneous

**COMPATIBILITY:** Operating System(s):

- Windows 8 (32-bit/64-bit)
- Windows 7 (32-bit/64-bit)
- Windows Vista SP1 and above
- Windows XP SP2 and above
- Windows Server 2008 (32-bit/64-bit)
- Windows Server 2003 with SP2 and above (32-bit/64-bit)

### DEVICE SUPPORTED:

- Desktop PC
- Notebook

### FEATURES:

- Low Power Consumption
- Multi-level Cell Flash
- Native Command Queuing (NCQ)
- TRIM Command

**PLATFORM SUPPORTED:** PC

### Network & Communication

**WIRELESS LAN:** No

### Physical Characteristics

**DEPTH:** 0.3"  
**DRIVE TYPE:** Internal  
**DRIVE WIDTH:** 2.5"  
**HEIGHT:** 2.8"  
**PLATFORM SUPPORTED:** PC  
**WEIGHT (APPROXIMATE):** 0.03 oz  
**WIDTH:** 3.9"

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### DRIVE TYPE: Internal

### FEATURES:

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- TRIM Command

### PACKAGED QUANTITY: 1

### PLATFORM SUPPORTED: PC

### STORAGE CAPACITY: 256 GB

### WIDTH: 3.9"

## Storage

### BUFFER: 512 MB

### FEATURES:

- Low Power Consumption
- Multi-level Cell Flash
- Native Command Queuing (NCQ)
- TRIM Command

### STORAGE CAPACITY: 256 GB

## Technical Information

### BUFFER: 512 MB

### DEVICE SUPPORTED:

- Desktop PC
- Notebook

### DRIVE TYPE: Internal

### FEATURES:

- Low Power Consumption
- Multi-level Cell Flash
- Native Command Queuing (NCQ)
- TRIM Command

### PLATFORM SUPPORTED: PC

### STORAGE CAPACITY: 256 GB

### WIRELESS LAN: No

## Warranty

### LIMITED WARRANTY: 10 Year

## Wireless Specifications

### FEATURES:

- Low Power Consumption
- Multi-level Cell Flash
- Native Command Queuing (NCQ)
- TRIM Command

### WIRELESS LAN: No