

# 830 Series Solid State Hard Drive

Samsung PC Memory



## PRODUCT HIGHLIGHTS

- Turns everyday performance into powerhouse performance.
- Superior reliability from the inside out.
- A total solution—includes everything you need to upgrade your laptop or desktop.

MODEL NAME	UPC	CAPACITY	KIT TYPE	SEQUENTIAL READ SPEED	SEQUENTIAL WRITE SPEED	RANDOM READ SPEED (IOPS)	RANDOM WRITE SPEED (IOPS)
MZ-7PC128N/AM	036725604759	128GB	Notebook	520MB/s	Up to 320MB/s	Up to 80K	Up to 30K
MZ-7PC256N/AM	036725604766	256GB			Up to 400MB/s		Up to 36K
MZ-7PC512N/AM	036725604773	512GB			Up to 160MB/s	Up to 16K	
MZ-7PC064D/AM	036725604711	64GB	PC Desktop		Up to 320MB/s	Up to 80K	Up to 30K
MZ-7PC128D/AM	036725604728	128GB			Up to 400MB/s		Up to 36K
MZ-7PC256D/AM	036725604735	256GB			Up to 160MB/s	Up to 16K	
MZ-7PC512D/AM	036725604858	512GB			Up to 320MB/s	Up to 30K	
MZ-7PC064B/WW	036725604896	64GB	Basic Drive		Up to 400MB/s	Up to 80K	Up to 36K
MZ-7PC128B/WW	036725604902	128GB			Up to 160MB/s		Up to 16K
MZ-7PC256B/WW	036725604919	256GB			Up to 320MB/s	Up to 30K	
MZ-7PC512B/WW	036725604926	512GB			Up to 400MB/s	Up to 36K	

# Solid State Hard Drive

## TYPE

- 2.5" SATA III (6 Gb/s)
- Also compatible with SATA II (3 Gb/s) and SATA I (1.5 Gb/s)

## NAND FLASH

- 2x nm Samsung Toggle DDR MLC NAND Flash Memory

## PRODUCT DIMENSIONS (HxWxL)

- 0.28 x 2.75 x 3.94 inches
- Only 7mm thick to accommodate ultraportables and netbooks

## PRODUCT WEIGHT

- 64GB/128GB: Max 0.13lbs
- 256GB/512GB: Max 0.14lbs

## SOFTWARE

- Norton Ghost 15 (Full Retail Version)
- Samsung SSD Magician 3.0 (featuring User-Configurable Overprovisioning, SecureErase, S.M.A.R.T. Drive Analysis, and OS Optimization)

## HARDWARE COMPATIBILITY

- Windows 7 (32-bit and 64-bit)
- Vista
- XP
- MAC OSX
- Linux

## SOFTWARE COMPATIBILITY

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

## STANDARD OPERATING VOLTAGE

- 5V  $\pm$  5%

## POWER CONSUMPTION (ACTIVE)

- 0.127W

## POWER CONSUMPTION (IDLE)

- 0.078W

## VIBRATION (OPERATING)

- 2.17Grms (7-800Hz)

## VIBRATION (NON-OPERATING)

- 3.08Grms (7-800Hz)

## SHOCK

- 1500G & 0.5ms (Half sine)

## TRIM SUPPORT

- Y (with supported OS)

## RAID SUPPORT

- Y (with RAID Controller)

## ANNUALIZED FAILURE RATE (AFR)

- 0.16% (Consumer)
- 0.58% (Enterprise)

## TEMPERATURE

- 32°F to 140°F (Operating)

## HUMIDITY

- 5% to 95%, non-condensing

## US TRADE AGREEMENT ACT (TAA) COMPLIANT

- Yes

## COUNTRY OF MANUFACTURE

- South Korea

## WARRANTY

- 3 Year

## TECH SUPPORT

- 1-800-SAMSUNG (1-800-726-2864)



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