



# Samsung 850 PRO 2.5" 512 GB Serial ATA III 3D MLC

Brand : Samsung

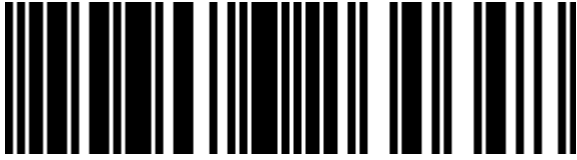
Product code: MZ-7KE512BW

Product name : 850 PRO

512GB, 2.5" SATA III Solid State Drive, Up to 550MB/s/520 MB/s  
Samsung 850 PRO. SSD capacity: 512 GB, SSD form factor: 2.5", Read speed: 550 MB/s, Write speed: 520 MB/s, Data transfer rate: 6 Gbit/s



Features		Operational conditions	
SSD form factor *	2.5"	Operating temperature (T-T)	0 - 70 °C
SSD capacity *	512 GB	Storage temperature (T-T)	-40 - 85 °C
Interface *	Serial ATA III	Operating relative humidity (H-H)	5 - 95%
Memory type *	3D MLC	Storage relative humidity (H-H)	5 - 95%
Data transfer rate	6 Gbit/s	Non-operating vibration	20 G
Read speed	550 MB/s	Operating shock	1500 G
Write speed	520 MB/s	Non-operating shock	1500 G
Random read (4KB)	10000 IOPS	Weight & dimensions	
Random write (4KB)	36000 IOPS	Width	100 mm
S.M.A.R.T. support	✓	Depth	6.8 mm
TRIM support	✓	Height	69.8 mm
Mean time between failures (MTBF)	2000000 h	Other features	
Windows operating systems supported	Windows 7 Enterprise, Windows 7 Enterprise x64, Windows 7 Home Basic, Windows 7 Home Basic x64, Windows 7 Home Premium, Windows 7 Home Premium x64, Windows 7 Professional, Windows 7 Professional x64, Windows 7 Starter, Windows 7 Starter x64, Windows 7 Ultimate, Windows 7 Ultimate x64, Windows 8, Windows 8 Enterprise, Windows 8 Enterprise x64, Windows 8 Pro, Windows 8 Pro x64, Windows 8 x64, Windows Vista Business, Windows Vista Business x64, Windows Vista Enterprise, Windows Vista Enterprise x64, Windows Vista Home Basic, Windows Vista Home Basic x64, Windows Vista Home Premium, Windows Vista Home Premium x64, Windows Vista Ultimate, Windows Vista Ultimate x64, Windows XP Home, Windows XP Home x64, Windows XP Professional, Windows XP Professional x64	Product colour	Black
TBW rating	150	Internal	✓
Power		Operating temperature (T-T)	32 - 158 °F
Power consumption (read)	3.5 W		



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