

Samsung SM863a 2.5" 960 GB Serial ATA III

Brand : Samsung

Product code: MZ7KM960HMJP

Product name : SM863a

SM863a, 960 GB, 2.5", SATA III, 6.0 Gbit/s

Samsung SM863a. SSD capacity: 960 GB, SSD form factor: 2.5", Read speed: 510 MB/s, Write speed: 485 MB/s, Data transfer rate: 6 Gbit/s



Features

Security algorithms	256-bit AES
SSD form factor *	2.5"
SSD capacity *	960 GB
Interface *	Serial ATA III
NVMe *	✗
Hardware encryption *	✓
Data transfer rate	6 Gbit/s
Read speed	510 MB/s
Write speed	485 MB/s
Random read (4KB)	95000 IOPS
Random write (4KB)	25000 IOPS
Controller type	Samsung Mercury
S.M.A.R.T. support	✓
TRIM support	✓
Mean time between failures (MTBF)	2000000 h

Power

Operating voltage	5 V
Power consumption (read)	2.4 W
Power consumption (write)	2.9 W
Power consumption (idle)	1.3 W

Operational conditions

Operating temperature (T-T)	0 - 70 °C
Storage temperature (T-T)	-40 - 85 °C
Storage relative humidity (H-H)	5 - 95%
Operating shock	1500 G

Weight & dimensions

Width	100.2 mm
Depth	6.8 mm
Height	69.8 mm
Weight	54.3 g

Other features

Product colour	Black
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