



Lenovo 4XB7A80318 internal solid state drive 960 GB 2.5" SAS V-NAND TLC

Brand : Lenovo

Product code: 4XB7A80318

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ThinkSystem 2.5" PM1653 960GB Read Intensive SAS 24Gb HS SSD

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Unlike 6 Gb/s SATA drives, the 24 Gb/s SAS interface on these drives supports full duplex data transfer for higher performance, and enterprise-level error recovery for better availability. By combining the enhanced reliability of Samsung NAND flash memory silicon with NAND Flash management technologies, PM1653 SSDs deliver endurance of up to 1 drive writes per day (DWPD) for 5 years, which is suitable for many enterprise applications with read-intensive storage characteristics.

Self-encrypting drives (SEDs) provide benefits by encrypting data on-the-fly at the drive level with no performance impact, by providing instant secure erasure thereby making the data no longer readable, and by enabling auto-locking to secure active data if a drive is misplaced or stolen from a system while in use. These features are essential for many businesses, especially those storing customer data.

Features		Power	
SSD capacity *	960 GB	Power consumption (read)	11.5 W
SSD form factor *	2.5"	Power consumption (write)	14.7 W
Interface *	SAS	Weight & dimensions	
Memory type *	V-NAND TLC	Width	70 mm
Component for *	Server/workstation	Depth	100 mm
Data transfer rate	24 Gbit/s	Height	15 mm
Random read (4KB)	420000 IOPS	Weight	160 g
Random write (4KB)	60000 IOPS	Operational conditions	
Read latency	120 µs	Operating temperature (T-T)	0 - 70 °C
Write latency	45 µs	Storage temperature (T-T)	-40 - 85 °C
Mean time between failures (MTBF)	2000000 h	Operating relative humidity (H-H)	5 - 95%
Certification	UL TUV FCC IC CB CE Mark C-Tick Mark BSMI (Taiwan) KCC (Korea EMI) VCCI	Non-operating shock	1500 G
		Vibration resistance	20 G



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