TOSHIBA

Brief Specification

End of Sales

Enterprise SSD

PX04SMB320 / PX04SMB160 / PX04SMB080 / PX04SMB040 / PX04SMQ320 / PX04SMQ160 / PX04SMQ080 / PX04SMQ040

	PX04SMB320 PX04SMQ320	PX04SMB160 PX04SMQ160	PX04SMB080 PX04SMQ080	PX04SMB040 PX04SMQ040
Basic Specification				
Interface	SAS-3.0			
Interface Speed	12.0 Gbit/s , 6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s			
Memory Type	MLC			
Formatted Capacity	3,200 GB	1,600 GB	800 GB	400 GB
Sustained 64KiB Sequential Read (12.0 Gbit/s Dual Port)	1,500 MiB/s	1,900 MiB/s		
Sustained 64KiBSequential Write (12.0 Gbit/s Dual Port)	750 MiB/s	850 MiB/s		
Sustained 4KiB Random Read (12.0 Gbit/s Dual Port)	270,000 IOPS			
Sustained 4KiB Random Write (12.0 Gbit/s Dual Port)	85,000 IOPS	90,000 IOPS		
Reliability				
MTTF	2,000,000 hours			
Warranty	5 years			
DWPD	10			
Power Requirements				
Supply Voltage	5 V ±7 % , 12 V ±7 %			
Power Consumption (Ready)	3.2 W Typ.			
Dimensions				
Height	15.0 mm +0 , -0.5 mm			
Width	69.85 ±0.25 mm			
Length	100.45 mm Max.			

Weight	150 g Max.
Environmental Specifications	
Temperature (Operating)	0 to 55 °C
Relative Humidity (Operating)	5 to 95 % R.H.
Vibration (Operating)	21.27 m/s^2 { 2.17 Grms } (5 to 800 Hz)
Shock (Operating)	9,800 m/s^2 { 1,000 G } (0.5 ms duration)

- Product image may represent a design model.
- Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2^{30} = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.
- A kibibyte (KiB) means 2^{10}, or 1,024 bytes, a mebibyte (MiB) means 2^{20}, or 1,048,576 bytes, and a gibibyte (GiB) means 2^{30}, or 1,073,741,824 bytes.
- MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF.
- DWPD: Drive Write Per Day. One full drive write per day means the drive can be written and re-written to full capacity once a day every day for five years, the stated product warranty period. Actual results may vary due to system configuration, usage and other factors.
- Read and write speed may vary depending on the host device, read and write conditions, and file size.
- IOPS: Input Output Per Second (or the number of I/O operations per second)
- PLP (Power Loss Protection): PLP supports to record data in buffer memory to NAND flash memory, utilizing back up power of solid capacitor in case of sudden supply shut down.