

SSD

> **PX04PMB SERIES**
ENTERPRISE MID ENDURANCE SSD

> **KEY FEATURES**

- Up to 3.2 TB Storage Capacity
- 2.5-type form factor, 15 mm Z-height
- 10 DWPD with 100% Random Workload
- Up to 660k IOPs Random Read
- Power Loss Protection
- 18.5W Active Power Consumption



> **APPLICATIONS**

- JBOF (Just a bunch of flash)
- Web server
- HPC
- OLTPD
- Media Streaming

> **MAIN SPECIFICATIONS**

| Model Number | | PX04PMB320 | PX04PMB160 | PX04PMB080 |
|--------------------|-----------------------------------|-------------------------------------|--------------|--------------|
| Part No. | | SDFKR00GEA01 | SDFKR01GEA01 | SDFKR02GEA01 |
| Interface | | PCI Express 3.0 | | |
| Formatted Capacity | | 3,200 GB | 1,600 GB | 800 GB |
| Performance | Interface Speed | 32 GT/s (Gen3 x4) | | |
| | Memory Type | MLC | | |
| | Sustained 128 KiB Sequential Read | 3,100 MiB/s | | |
| | Sustained 128KiB Sequential Write | 2,350 MiB/s | | |
| | Sustained 4KiB Random Read | 660K IOPS | | |
| | Sustained 4KiB Random Write | 185K IOPS | | |
| Supply Voltage | Allowable Voltage | 3.3 V ± 9% (Standby) 12 V ± 10 % | | |
| Power Consumption | | 6 W Typ. | | |

> **RELIABILITY**

| Model Number | PX04PMBxxx |
|--------------|-----------------|
| MTTF | 2,000,000 hours |
| DWPD | 10 (fixed) |
| Warranty | 5 years |

> MECHANICAL SPECIFICATIONS

| Model Number | PX04PMBxxx |
|--------------|----------------------|
| Height | 15.0 mm + 0, -0.5 mm |
| Width | 69.85 ± 0.25 mm |
| Length | 100.45 mm Max. |
| Weight | 150 g Max. |

> ENVIRONMENTAL LIMITS

| Item | PX04PMBxxx |
|-------------|--|
| Temperature | Operating 0 °C to 40 °C |
| 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 = 2³⁰ = 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.

GT/s : Giga Transfers per second (The transfer speed only for effectiveness data)

A kibibyte (KiB) means 2¹⁰ or 1,024 bytes, a mebibyte (MiB) means 2²⁰ or 1,048,576 bytes and a gibibyte (GiB) means 2³⁰ 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.

The performance is measured in sustained condition.

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)