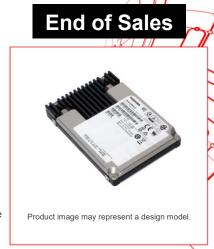
KIOXIA

> PX05SLB SERIES ENTERPRISE READ INTENSIVE SSD

The PX05S Series is our 4th generation enterprise SAS SSD leveraging the highly successful PX04S Series. The PX05SL Series is designed for very read-intensive application workloads including web servers, data warehousing, media streaming and VOD and offers large capacities up to 4TB with 12.0 Gbit/s SAS interface.

The series' 270K IOPS sustained random read performance and 1,400 - 1,800 MB/s sequential read performance helps very read-intensive application workloads to realize superior results and assists organizations in minimizing total cost of ownership while maintaining high performance, reliability and endurance for maximum scalability.



Optimized for applications demanding 0.5 or less Drive Writes Per Day (DWPD), the family is equipped with unique customer-tunable feature allowing optimization for maximum performance or power efficiency. Additional features include power-loss protection and full data path protection. Each model supports pin-3 power disable for improved enclosure services control over storage media. Self-encrypting drive options with instant secure erase are also available.

> KEY FEATURES

- 2TB and 4TB Storage Capacity
- 12.0 Gbit/s Dual-Port SAS Interface
- 270K IOPS random read (4K) performance
- 0.5 DWPD with 100% Random Write Workload
- Power-Loss-Protection and End-to-End Data Protection including T10 DIF
- Pin-3 Power Disable Support
- Sanitize Instant Erase (SIE) Option
- Self-Encrypting (SED) Option
- Self-Encrypting (SED), FIPS Certified Option
- 5-year limited warranty

APPLICATIONS

- Data Warehousing
- Web Servers
- Media Streaming
- Video on Demand (VOD)

> MAIN SPECIFICATIONS

| Model Number SIE Model Number SED Model Number SED FIPS Model Number | | PX05SLB400 PX05SLB400Y PX05SLQ400 PX05SLQ400B | PX05SLB200 PX05SLB200Y PX05SLQ200 PX05SLQ200B |
|---|-------------------------------------|--|--|
| Interface Formatted Capacity | | 4,000 GB | 2,000 GB |
| Performance | Interface Speed | 12.0 Gbit/s , 6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s | |
| | Memory Type | MLC | |
| | Sustained 64KiB Sequential Read | 1,400 MiB/s | 1,800 MiB/s |
| | Sustained 64KiB Sequential Write | 750 MiB/s | 850 MiB/s |
| | Sustained 4KiB Random Read | 270,000 IOPS | |
| | Sustained 4KiB Random Write | 20,000 IOPS | |
| Supply Voltage | Allowable Voltage | 5 V ± 7% 12 V ± 7 % | |
| Power Consumption | | 3.2 W Typ. | |

RELIABILITY

| Model Number | PX05SLBxxx PX05SLBxxxY PX05SLQxxx PX05SLQxxxB | |
|--------------|--|--|
| MTTF | 2,000,000 hours | |
| DWPD | 0.5 | |
| Warranty | 5 years | |

MECHANICAL SPECIFICATIONS

| Model Number | PX05SLBxxx PX05SLBxxxY PX05SLQxxx PX05SLQxxxB | |
|--------------|--|--|
| 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 | | PX05SLBxxx PX05SLBxxxY PX05SLQxxx PX05SLQxxxB | |
|-------------|-----------|--|--|
| Temperature | Operating | 0 °C to 55 °C | |
| Humidity | Operating | 5 % to 95 % R.H. (No condensation) | |
| 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: KIOXIA 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.

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.

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)

There are some models of KIOXIA Storage Products which deliver various security functions as optional feature. For more information of security options, please contact your KIOXIA sales representative

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