

Enterprise Storage

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PX02SM Series Solid State Drive

200 / 400 / 800 / 1600GB*
2.5-Inch / eMLC NAND /SAS

Toshiba's highest performance 2.5" Enterprise-Class Solid State Drive Architecture optimized for mission critical Tier-0 enterprise server & storage applications; features are highlighted by 6G/12G SAS along with industry standard self-encryption technology.

- 24nm eMLC NAND Process
- 12 Gb/sec SAS Interface & 6 Gb/sec SAS Interface
- Capacities up to 1.6TB*
- Quadruple Swing by Code, Layered ECC Approach for Improved Error Correction
- Power Loss Protection
- Security Models Available



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Leading Innovation >>>



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| | PX02SMF020 PX02SMU020 | PX02SMF040 PX02SMU040 | PX02SMF080 PX02SMU080 | PX02SMB160 PX02SMQ160 |
|--|---|-------------------------------|-------------------------------|--------------------------------|
| Security SANITIZE Cryptographic Erase | | | | |
| Series Overview | | | | |
| Drive Capacity | 200GB* | 400GB* | 800GB* | 1.6TB* |
| Physical Capacity | 256GB* | 512GB* | 1,024GB* | 2,048GB* |
| NAND Technology | 24nm eMLC | | | |
| Drive Interface | SAS 6 Gb/sec / 12 Gb/sec, Dual port | | | |
| Sector Size | 512B, 520B, 528B, 4096B, 4104B, 4160B & 4224B | | | |
| Performance | | | | |
| Sequential Read (Sustained) | | | 900 MB/s** | |
| Sequential Write (Sustained) | | | 400 MB/s** | |
| 4kB Random Read (Sustained) | | | 120,000 IOPS** | |
| 4kB Random Write (Sustained) | | | 30,000 IOPS** | |
| Product Life | | | 5 years | |
| Power Requirements | | | | |
| Voltage | 5V (+/- 5%), 12V (+/- 5%) | | | |
| Power Consumption | <9.0W (+12V + 5%) | | | |
| Energy Consumption Efficiency | 13.4 kIOPS/W | | | |
| Physical Size | | | | |
| Dimensions (W) x (D) x (H) | 69.85 mm x 100 mm x 7.0 mm | 69.85 mm x 100 mm x 7.0 mm | 69.85 mm x 100 mm x 7.0 mm | 69.85 mm x 100 mm x 15.0 mm |
| Weight | 70 g | | | |
| Environmental | | | | |
| Temp - Operating | 0° to 55°C | | | |
| Temp - Non-Operating | -40° to 70°C (-40° to 158°F) | | | |
| Vibration - Operating | 9.8 m/s ² (1G) | | | |
| Vibration - Non-Operating | 49 m/s ² (5G) | | | |
| Shock - Operating | 9,800 m/s ² (1,000G 0.5ms, ½ sine) | | | |
| Shock - Non-Operating | 9,800 m/s ² (1,000G 0.5ms, ½ sine) | | | |
| Power Loss Protection | YES | | | |
| Reliability | | | | |
| Availability (hrs/day x days/wk) | | | 24 x 7 | |
| Endurance - Total Bytes Written | 3.7PB*** | 7.3PB*** | 14.6PB*** | 29.2PB*** |
| Warranty | | | | |
| Limited Warranty | 5 years**** | | | |

*One Terabyte (1TB) = 1,000 Gigabytes (GB). One Gigabyte (1GB) means 10⁹ = 1,000,000,000 bytes using powers of 10. 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 will also be less if the computer includes one or more pre-installed operating systems, pre-installed software applications, or media content. Actual formatted capacity may vary.

**4KB random reads and/or writes

***Warranty for the 200GB capacity point is 5 years or 3.7PB total write capacity, whichever occurs first. Warranty for the 400GB capacity point is 5 years or 7.3PB total write capacity, whichever occurs first. Warranty for the 800GB capacity point is 5 years or 14.6PB total write capacity, whichever occurs first. Warranty for the 1600GB capacity point is 5 years or 29.2PB total write capacity, whichever occurs first.

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