

Nytró[®] XP7200 Add-In Card

Data Sheet

Key Features and Benefits

- PCIe Gen3 x16 interface offers four individual PCIe Gen3 x4 volumes
- NVMe 1.2a protocol for improved latency, consistent response time and high throughput
- Industry's highest-performance 10GB/s throughput
- Up to 8TB of total raw capacity in a single PCIe add-in card
- Supports standard NVMe drivers for easy deployment in current server platforms and infrastructure
- Power-loss data protection circuit helps prevent data loss after unexpected power interruptions
- End-to-end data protection, LDPC error correction and Seagate RAISE technology for high data integrity and reliability
- UEFI bootable solution
- OCP compliant device

Optimizing TCO for high-performance workloads

The continual growth of big data is increasing the demands on modern data centers for robust storage solutions, better application performance and optimized TCO. The Nytró XP7200 NVMe add-in card delivers industry-leading performance per dollar. By combining multiple SSD controllers into a single PCIe card without any additional cost, power or latency required from a PCIe bridge chip or switch, it enables servers to communicate directly with the four individual controllers through the one motherboard PCIe socket for flexible utilization and scalability.

The Nytró XP7200 add-in card leverages the existing and widely used x16 PCIe slots in servers while delivering maximum capacity and performance per PCIe slot for high-performance enterprise and hyperscale applications.

Unprecedented Performance of 10GB/s Throughput

The Nytró XP7200 meets the most demanding application requirements with the industry's highest bandwidth of 10GB/s through a single PCIe slot. By delivering high bandwidth and low latency, it improves QoS and significantly boosts application responsiveness.

The Nytró XP7200 features a PCIe Gen3 x16 interface with NVMe protocol, which delivers improved latency, consistent response time, high throughput and IOPS performance, all while requiring less CPU utilization.

Enterprise-Ready Configuration

By leveraging Seagate's existing enterprise expertise and manufacturing excellence, the Nytró XP7200 delivers the highest levels of data integrity and endurance for critical business applications.

The Nytró XP7200 features end-to-end data protection, LDPC error correction and Seagate RAISE™ technology for solid reliability and endurance. With power-loss data protection, the XP7200 maintains data integrity to help prevent loss of data in the event of unexpected power interruptions.



Nytrio[®] XP7200 Add-In Card



| Specifications | 7.7TB ¹ | 3.8TB ¹ |
|---|----------------------------|----------------------------|
| Standard Model | XP7200-1A8192 | XP7200-1A4096 |
| Interface | PCIe Gen3 x16 NVMe 1.2a | PCIe Gen3 x16 NVMe 1.2a |
| NAND Flash Type | MLC | MLC |
| Form Factor | Full-height, half-length | Full-height, half-length |
| Performance | | |
| Sequential Read (MB/s) Sustained, 128KB ² | 10,000 | 10,000 |
| Sequential Write (MB/s) Sustained, 128KB ² | 3600 | 3600 |
| Random Read (IOPS) Sustained, 4KB QD64 ² | 940,000 | 940,000 |
| Random Write (IOPS) Sustained, 4KB QD64 ² | 160,000 | 160,000 |
| Endurance/Reliability | | |
| Lifetime Endurance (Drive Writes per Day) | 0.3 | 0.3 |
| Nonrecoverable Read Errors per Bits Read | 1 per 10E16 | 1 per 10E16 |
| Mean Time Between Failures (MTBF, hours) | 2M | 2M |
| Power Management | | |
| +12V Max Power (W) | 40 | 40 |
| Average Read/Write Power (W) | 26 | 26 |
| Environmental | | |
| Temperature, Operating (°C) / Airflow | 0 to 35 @ 250 LFM | 0 to 35 @ 250 LFM |
| Physical | | |
| Height (in/mm, max) ³ | 4.3/111 | 4.3/111 |
| Length (in/mm, max) ³ | 6.6/168 | 6.6/168 |
| Weight (g) | 280 | 280 |
| Carton Unit Quantity | 20 | 20 |
| Warranty | | |
| Limited Warranty (years) | 5 | 5 |

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

2 Performance data is based on testing under certain workload conditions and is subject to change.

3 These dimensions conform to the PCI Express Card Electromechanical Specification found at pcisig.com.



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