Nytro® XP7200 Add-In Card

Data Sheet

Key Features and Benefits

- PCIe Gen3 ×16 interface offers four individual PCIe Gen3 ×4 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 Nytro 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 Nytro XP7200 add-in card leverages the existing and widely used ×16 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 Nytro 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 Nytro XP7200 features a PCIe Gen3 ×16 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 Nytro XP7200 delivers the highest levels of data integrity and endurance for critical business applications.

The Nytro 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.

SEAGATE

Nytro® XP7200 Add-In Card

Specifications	7.7TB[1]	3.8TB[1]
Standard Model	XP7200-1A8192	XP7200-1A4096
Interface	PCIe Gen3 ×16 NVMe 1.2a	PCIe Gen3 ×16 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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Seagate 5-Year Warranty

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