PRODUCT BRIEF

Wiwynn ST7200-30P/60M
WiRack21 Storage
Intel® SSD DC P3500, P3600, P3700 Series
High-Capacity, High-Performance Storage

2U 21-inch OCP All-Flash NVMe* Storage

High-capacity, high-performance all-flash NVMe storage with Intel® SSD DC Series for PCIe*

Overview

To achieve the high IOPS needed to break through the bottlenecks of SAS and SATA HDD storage performance, Wiwynn designed the ST7200-30P/60M. Designed for performance with high capacity, the system supports up to 30 U.2 (2.5-inch/15 or 17mm) or 60 M.2 (22110 or 2280) NVMe SSDs, including Intel® SSD DC P3500, P3600, P3700 Series drives.

Wiwynn ST7200-30P/60M delivers ultra-high performance, with minimum I/O throughput of 26.6 GB/s,[1] IOPs of 5,984K (4 KB random write)[2] and excellent price performance (7,958 IOPS/Watt).[3] The system supports PCIe* 3.0 U.2 or M.2 NVMe* SSDs, giving data centers the best flexible configurations to support their storage needs.

A drawer-like innovative design allows IT engineers to easily and quickly upgrade and maintain SSDs, fans, and expander boards without tools. SSDs can be hot-swapped immediately when a drive fails, saving time and maintaining data availability.

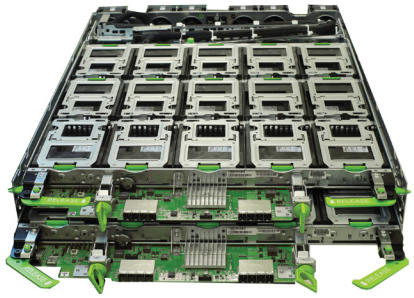
- Ultra-high IOPS and microsecond-grade latency
- Flexible choice of various SSD form factors
- Tool-less and modularized design for easy upgrade and maintenance
- Hot-pluggable SSDs

Wiwynn – A fast-growing cloud infrastructure provider, developing high-density computing server and storage for hyper-scale data centers.

Intel® Solid State Drive Data Center Family for PCIe Family

The Intel® SSD DC P3500, P3600, P3700 Series outperforms SATA SSDs, running simultaneous demanding workloads. The Intel® Solid State Drive Data Center Family for PCIe delivers extreme data throughput with up to six times faster data transfer speed than 6 Gbps SAS/SATA SSDs.[4] These devices are based on Intel-developed controller, firmware, and leading manufacturing process NAND flash memory. Rigorous qualification and compatibility testing ensures a highly reliable SSD. The Intel SSD Data Center family drives offer high performance, low latency, and high endurance for enterprise and service provider needs. They have proven end-to-end data protection and better reliability standards than JEDEC requirements, while maintaining up to 90 percent IOPS consistency on all product lines.

MODEL: WIWYNN ST7200-30P/60M	
STORAGE AND I/O	
Expander	PCIe* 3.0 Switch
Storage	60 M.2 NVMe SSDs: 22110 or 2280 30 U.2 NVMe SSDs: 15mm or 7mm
Expansion Ports	Up to 4 PCIe 3.0 (x16) ports
Remote Management	BMC
POWER SUPPLY AND PHYSICAL SPECIFICATIONS	
Power Supply	Centralized 12V DC bus bar
Form Factor and Dimension	2 OU (Open Rack); 93.5 (H) x 536 (W) x 795 (D)
Weight	38 kg ~ 55 kg



"I am thrilled to introduce ST7200-30P/60M, a new generation in the storage ecosystem. With state-of-the-art technology, integration of PCIe fabric, and Intel SSD DC P3500, P3600, P3700 Series, we again demonstrate expertise and commitment to valued partners."

- Sunlai Chang, VP of Engineering of Wiwynn

TO LEARN MORE ABOUT THE EXCELLENT FEATURES OF WIWYNN ST7200-30P/60M, VISIT
http://www.wiwynn.com/english/product/type/details/45?ptype=28#tabr4

TO LEARN MORE ABOUT INTEL® NVME SSD TECHNOLOGIES, VISIT
www.intel.com

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com/storage.

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products.

1. I/O throughput of 26.6 GB/s: measured by using FIO 2.1.10 in Linux* CentOS 6.7 server with 128 KB of data transfer size in Queue Depth=32, 4 cables (x16).
2. IOPs of 5,984K (4 KB random write): each sled with 15 Intel P3500 U.2 SSDs provides up to 3 million IOPs by 4 KB block size and 32 queue depth.
3. IOPS divided by power consumption= 5,984K/770W (7,958 IOPS/Watt).
4. Tests document performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Configurations: Performance claims obtained from data sheet, sequential read/write at 128k block size for NVMe and SATA, 64k for SAS. Intel SSD DC P3700 Series 2 TB, SAS Ultrastar® SSD1600MM, Intel SSD DC S3700 Series SATA 6 Gbps. Intel® Core™ i7-3770K CPU @ 3.50 GHz, 8 GB of system memory, Windows* Server 2012, IOMeter. Random performance is collected with 4 workers each with 32 QD.

For more information go to http://www.intel.com/performance.

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