



Phison is the world's leading private-label supplier of controllers and SSDs for enterprise and hyperscale storage, cloud and edge compute, and data centers. The most sophisticated enterprise environments trust Phison's performance, capacity, endurance, and power efficiency.



X200

Extraordinary, no ordinary. X200 overcomes your latency-sensitive workloads with the power of PCIe Gen5. The X200 leverages Phison's proprietary CPU architecture to enable optimal performance-per-watt giving you more options to customize performance at the drive level that meets requirements while reducing operating costs at scale.

- PCIe Gen5x4 Dual/Single Port
- Form factors: U.2 and E3.S
- Reliability: 1 and 3 DWPD options
- Capacities: 1.6TB to 30.72TB
- Sequential Read 14.8GB/s
- Sequential Write 8.7GB/s
- Random Read 3000K IOPS
- Random Write 900K IOPS
- Enhanced security and data protection features: Power Loss Protection, TCG OPAL, FIPS 140-3 certifiable



D205V

Phison's ultra-capacity D205V data center SSD achieves a 4-to-1 capacity advantage over disks, enabling larger datasets per server and reducing OPEX cost. Available in 122.88TB, the D205V read-intensive SSD combines Phison's industry-leading X2 controller and the latest 2Tb 3D QLC technology to achieve unequaled 14,600 MB/s sequential read and 3,000K IOPS random read performance.

Discarding data is no longer an option in the artificial intelligence era. AI requires a combination of warm and cold data for machine learning to build new models to predict future events and trends that lead. Your path to overcoming the data deluge is clear with today's leading capacity-per-watt SSD, the Phison D205V.

- PCIe Gen5 Single and Dual Port
- Form Factors: U.2 and E3.L
- Reliability: <1 DWPD
- Capacity: up to 122.88TB
- Sequential Read: 14.6 GB/s
- Sequential Write: 3.3 GB/s
- Random Read (4K): 3,000K IOPS
- Random Write (16K): 35K IOPS
- Enhanced Security and data protection features: Power Loss Protection, AES 256-bit, SECDED



Redriver PS7161 Redriver PS7162

Next-gen-ready Signal Conditioning

- PCIe 6.0
- I²C mode support
- 4 and 8 channels (non-interleaved)
- 4 Level I/O for EQ and GAIN settings to reduce pin count
- Pin-to-pin vs. PCIe 5.0
- 20dB max EQ boosting range
- 70ps ultra-low latency
- Package type: FCLGA
- SiGe BiCMOS process
- "PHITUNE" Auto-EQ tunig tool
- Optimized Linearity for PCIe 6.0



PS7162 measurement result in a PCIe 6.0 (PAM4) system environment.

"ASRock Rack has always been committed to providing high-performance and reliable server and workstation systems as well as motherboards. We are delighted that Phison's Redriver IC contributes to achieving this goal."

– Weishi Sa, President of ASRock Rack