PHISON

FMS 2025 Media Update 2H2025

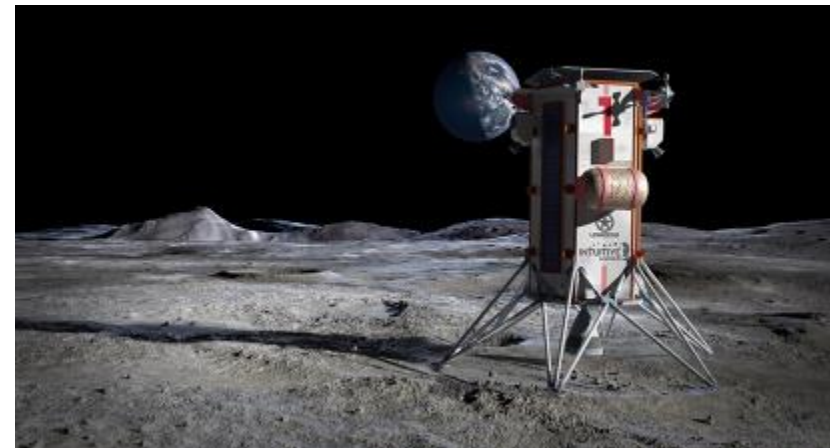**FMS**
the **Future** of **Memory** and **Storage**

PHISON

FMS 2025

PHISON 25 Years

PASCARI

X200
X200Z
D200
D205V

E28

2025 Flagship PCIe Gen5 SSD

aiDAPTIV⁺

☑ Affordable
☑ Private
☑ Smarter AI

Quick Facts about Phison

$1.8B
2024 Revenue

25
Years Experience

Business Focus

Enterprise

AI

Client

Industrial

+18%+
Global SSD Market Share

5000+HC
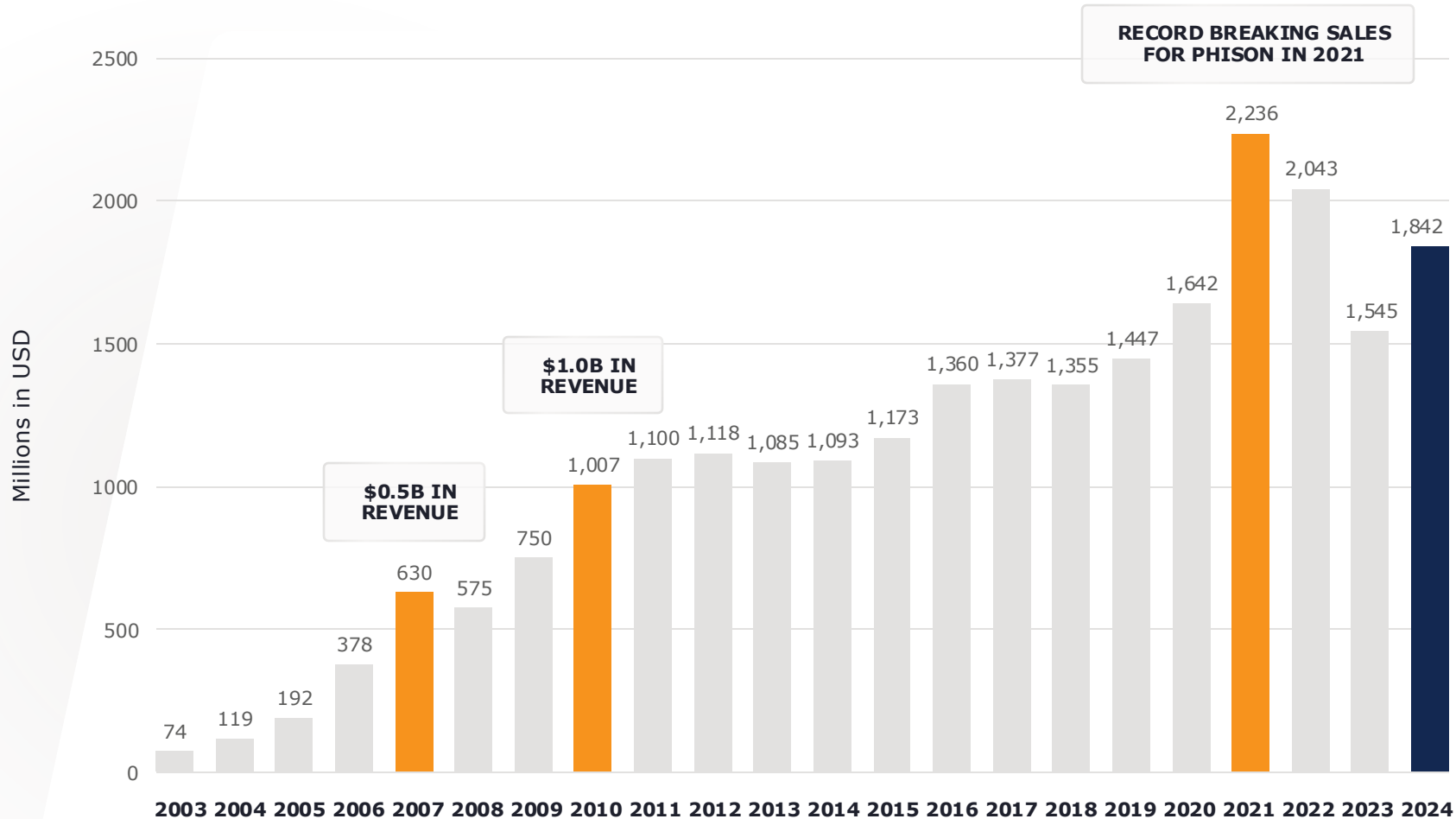75% R&D
Expanding our team while retaining key talent

80%
R&D Exp. / OPEX
Employee expertise comes from our heavy R&D spend

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Phison is a Technology Leader in NAND Storage

Millions in USD

RECORD BREAKING SALES FOR PHISON IN 2021

$1.0B IN REVENUE

$0.5B IN REVENUE

Year	Value
2003	74
2004	119
2005	192
2006	378
2007	630
2008	575
2009	750
2010	1,007
2011	1,100
2012	1,118
2013	1,085
2014	1,093
2015	1,173
2016	1,360
2017	1,377
2018	1,355
2019	1,447
2020	1,642
2021	2,236
2022	2,043
2023	1,545
2024	1,842

Six World Firsts

Fastest Gen5 SSD
2023

Fastest Gen4 SSD
2021

Highest Capacity 2.5" SSD
2020

First Gen4 QLC SSD
2020

Highest Capacity M.2
2020

First Gen4 SSD
2019

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Global Support Map

Boise, USA
San Jose, USA
Broomfield, USA
UK
Germany
Italy
France
Brazil
Shanghai, China
Hefei, China
Yokohama, Japan
HQ, Taiwan
Shenzhen, China
India
Puchong, Malaysia
Singapore

● HQ　○ Sales Agent　● Branch Office

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Phison Serves the
World's Largest Storage OEMs

NAND flash makers are Phison's customers and suppliers

KIOXIA   **micron.**   **SAMSUNG**   **SK hynix**   **SANDISK**   **SOLIDIGM**

Data center	PC OEM	Space Missions	Automotive	Industrial Embedded	NAND Storage Private Label	IP Licensing
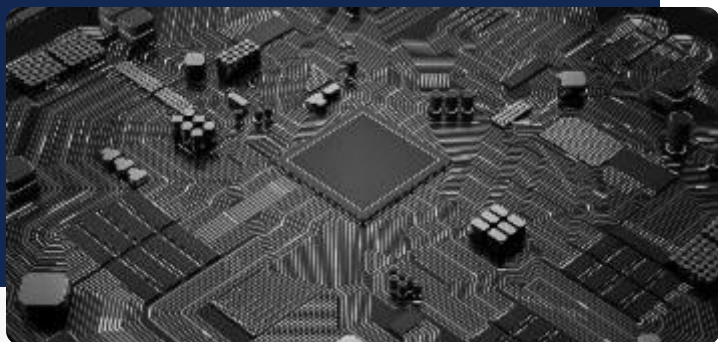
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One-of-a-kind Business Model

Enterprise SSDs

- Manufacture Complete SSDs
- Own Controller, F/W, PCBA Layout, PMIC
- System-Level Validation
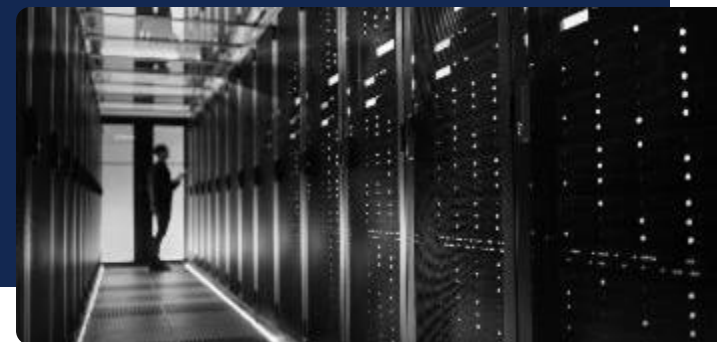
Controller ASICs

- Best Partner for NAND Storage
- Support Multiple NAND Partners
- Sophisticated ASIC Knowledge
- Cutting-Edge ECC Design

Design

- Comprehensive IP Library
- TSMC/UMC Process
- Software Development Kit

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Enterprise Updates

Pascari Enterprise SSD Product Line-up
Tailored for Any Enterprise Workload

HIGH PERFORMANCE
X-Series

High-Endurance PCIe Gen5 Enterprise SSD for Write-Intensive Applications

Specifications
- Interface: PCIe 5.0
- Form Factor: U.2, E3.S
- DWPD: Up to 60
- Capacity: Up to 30.72 TB
- MTBF: 2.5 million hours
- Warranty: 5 years

Use Cases
- AI/ML Training & Inferencing
- Financial Services (High-Frequency Trading)
- High-Performance Computing (HPC)

DATA CENTER
D-Series

Ultra-High-Capacity PCIe Gen5 Data Center SSD for Lower OPEX

Specifications
- Interface: PCIe 5.0
- Form Factor: U.2, E1.S, E3.S, E3.L
- DWPD: Up to 3
- Capacity: Up to 122.88 TB
- MTBF: 2.5 million hours
- Warranty: 5 years

Use Cases
- Hyperscale Cloud Environments
- Network Attached Storage (NAS)
- Warm Data Storage, Archiving

SATA
S-Series

High-Endurance SATA SSD for Enterprise Applications

Specifications
- Interface: SATA III
- Form Factor: 2.5"
- DWPD: 0.4, 1, 3
- Capacity: up to 15.36 TB
- MTBF: 2.0 million hours
- Warranty: 5 years

Use Cases
- Legacy System Upgrades (HHD to SSD transition)
- General Purpose Enterprise Storage (mass-market NAS)
- Cost-sensitive Workloads

BOOT DRIVE
B-Series

Boot Drive for Servers and Workstations

Specifications
- Interface: SATA III
- Form Factor: 2.5", M.2 2280
- DWPD: 1
- Capacity: Up to 960 GB
- MTBF: 2.0 million hours
- Warranty: 5 years

Use Cases
- Rapid OS and System Boot for Enterprise Servers and Workstations
- SATA Boot Drive for Legacy Systems and System Upgrades

ARTIFICIAL INTELLIGENCE
AI-Series

Cost-Effective Onsite LLM Training and Enhanced Inferencing with Turnkey aiDAPTIV+ Solutions

Specifications
- Interface: PCIe 4.0
- Form Factor: M.2 2280
- DWPD: Up to 100
- SLC NAND with Advanced NAND Correction Algorithm
- Warranty: 5 years

Features
- Supports a Wide Range of Models
- aiDAPTIV+ AI-Optimized Firmware
- Optimized Middleware to Extend GPU Memory Capacity

Pascari X200 Series Product Overview

X200 Series SSD

The best PCIe Gen5 performance, features, endurance, and economics for enterprise applications. The X200 shows Phison's dedication to developing advanced SSD technology to lead the industry in density, performance, and power efficiency for all mass-capacity storage providers.

Specifications

- Interface: PCIe 5.0 x 4
- Protocol: NVMe 2.0
- Capacity: Up to 30.72TB
- Form Factor: U.2 / E3.S
- DWPD: 1 and 3 DWPD
- MTBF: 2.5 million hours
- Warranty: 5 years

Features

- Dual-port design
- Ultra-low latency
- Power loss Protection
- MF-QoS
- Namespaces: 128

Performance

Seq. Read	14,800 MB/s
Seq. Write	8,700 MB/s
Ran. Read	3,200K IOPS
Ran. Write	930K IOPS

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Pascari X200Z Series Product Overview

X200Z Series SSD

The ultimate high-endurance storage solution X200Z redefines performance and reliability. Built for caching tier of storage hierarchy, X200Z features ultra high endurance, ensuring it can handle even the most demanding workloads with ease. Leveraging PCIe 5.0 for blazing fast speeds, X200Z delivers unmatched performance while maintaining durability and consistency.

Specifications

- Interface: PCIe 5.0 2x2
- Protocol: NVMe 2.0
- Capacity: Up to 3.2TB
- Form Factor: U.2
- DWPD: 60 DWPD
- MTBF: 2.5 million hours
- Warranty: 5 years

Features

- Dual-port design
- Ultra-low latency
- Power loss Protection
- MF-QoS
- Namespaces: 128

Performance

Seq. Read	14,800 MB/s
Seq. Write	9,500 MB/s
Ran. Read	3,000K IOPS
Ran. Write	950K IOPS

D200V/D205V Series Product Overview

New! Pascari D205V E3.L Showcase at Supermicro FMS Booth

D200V/D205V QLC SSD

Phison's D200V/D205V series utilize QLC technology to meet the high storage density demand driven by AI. With an impressive 122TB per SSD, D205V will help drive the trend of efficient data storage with improved space utilization and reduced power consumption.

Specifications

- Interface: PCIe 5.0 x 4
- Protocol: NVMe 2.0
- Form Factor: U.2 / E3.S / E3.L
- DWPD: 0.3 DWPD
- MTBF: 2.5 million hours
- Warranty: 5 years

Features

- 3D QLC NAND
- Dual-port design
- Power loss Protection
- Namespaces: 128

Capacity

D200V:
- 30.72TB
- 61.44TB

D205V:
- 122.88TB

LLM Training and Inference at Any Budget

IoT Device

Up to 1B
Parameter
Full Model
Training

$500-2,000

Laptop PC

Up to 8B
Parimeter
Full Model Training

$2,000-4,000

Desktop PC

Up to 13B Parimeter
Full Model Training

$3,000-5,000

Workstation PC

Up to 100B
Perimeter
Full Model Training

$5,000-50,000

Server & Storage

Up to 671B Parimeter
Full Model Training

$50,000+

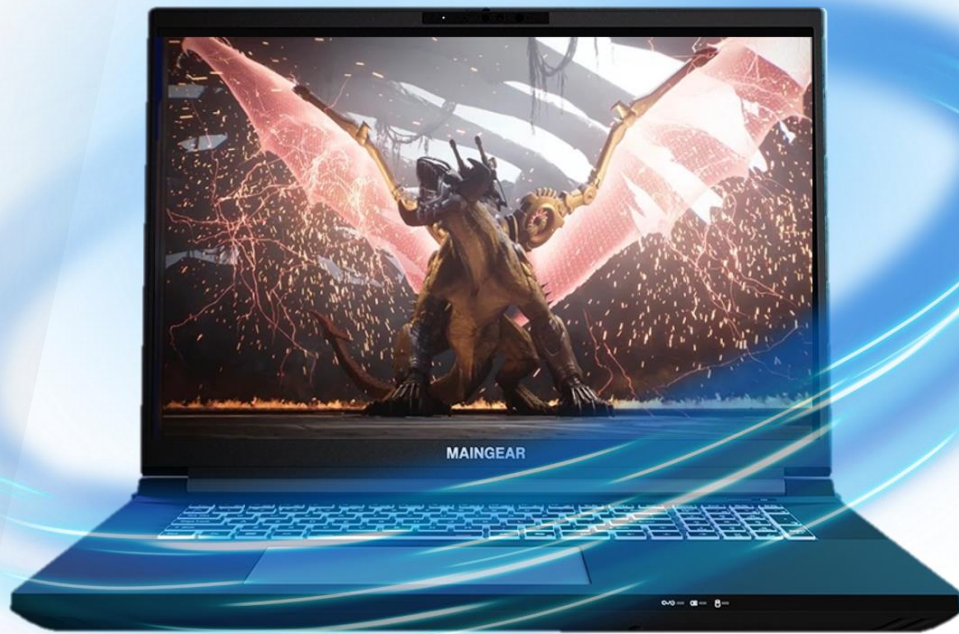AVerMedia   MAINGEAR   newegg   msi   storONE™
THINK RESULTS™

PHISON

Demo Partners

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Fine-Tune Training and Inference On The Go

- Mobile Workstation Design

- Fine-Tune Training up to 70B Full Parameter Models

- Inference up to 8B Full Parameter Models

- NVIDIA 5090 Mobile GPU with 24GB GDDR7

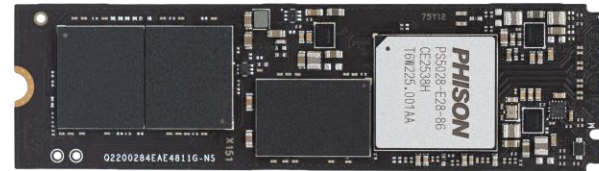- Available Q3 2025

Client SSD Update

PS5028-E28

The Weapon of Choice for Serious Gaming and Productivity

- PCIe Gen5x4

- TSMC 6nm process

- LPDDR4

- 8-channel with 32 CEs

- Capacity up to 32TB

- 3D TLC supported

- Quad-CPU architecture

- Phison 8th Gen LDPC & RAID ECC

- AES-256 / TCG Opal / Pyrite

- Form Factor: M.2 2280

M.2 2280

Performance

Seq. Read	14,800 MB/s
Seq. Write	14,000 MB/s
Ran. Read	2,600K IOPS
Ran. Write	3,000K IOPS

PS5031-E31T

Gen5 Speed and Efficiency for All Devices

- PCIe Gen5x4

- TSMC 7nm process

- DRAM-less Design

- 4-channel with 16 CEs

- Capacity up to 4TB

- 3D TLC supported

- ARM Cortex R5 CPU

- Phison 7th Gen LDPC & RAID ECC

- AES-256 / TCG Opal / Pyrite

- Form Factor: M.2 2280 / M.2 2242 / M.2 2230

M.2 2230

M.2 2242

M.2 2280

Performance

Seq. Read		10,300 MB/s
Seq. Write		8,600 MB/s
Ran. Read		1,300K IOPS
Ran. Write		1,500K IOPS

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Thank you

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