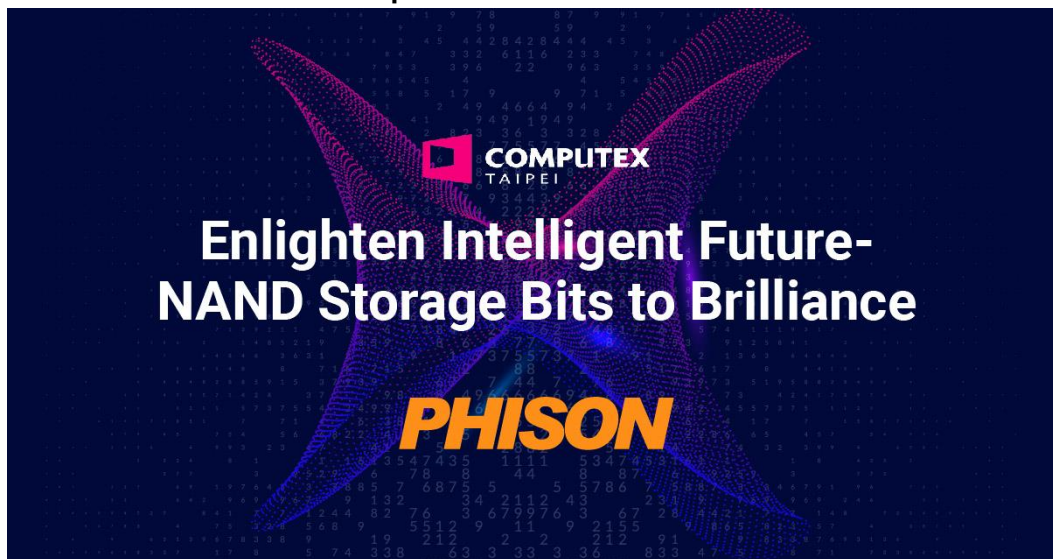


ファisonが台北 Computex で高速転送ストレージソリューションを展示



ファisonが台北 Computex で高速転送ストレージソリューションを展示

毎年恒例の Computex Taipei は台湾時間の 5 月 30 日に開幕します。今年は Efficient Computing、Smart Applications、Next Generation Communications、Beyond Reality、Innovation and Creativity、Green Sustainability の 6 つのテーマの下、1000 以上のグローバル企業が参加する予定です。NAND コントローラとストレージソリューションの世界的リーダーである [ファison](#)（台湾証券取引所 8299）も、本日（5/29）の Computex 前夜祭で、[スマートストレージの未来を示す高速転送とストレージソリューションを展示しました。](#)

今年の Computex でファisonは、業界をリードするフラッグシップ [PCIe 5.0 SSD「PS5026-E26」ストレージソリューション](#)の他、性能と消費電力を両立させた最大 10.5GB/秒の読み書きの性能を持つ 7nm 低電力 PCIe 5.0 DRAM-Less SSD コントローラ「PS5031-E31T」、12nm で最大読み書き速度 7400/6400MB/秒の新世代 PCIe 4.0 DRAM-Less SSD「PS5027-E27T」を発表します。E31T と E27T の SSD ストレージソリューションは、様々な PC OEM パートナー顧客のニーズに応えることが期待されます。

**PHISON**

## PS5031-E31T

Cruising into the Gen5 Horizon

- PCIe Gen5x4
- TSMC 7nm process
- DRAM-less
- 4-channel with 16CEs
- Capacity up to 8TB
- 3D TLC / QLC supported
- ARM Cortex R5 CPU
- Phison 7<sup>th</sup> Gen LDPC + RAID ECC, 4K code word
- AES256 / TCG Opal / Pyrite
- Form Factor : M.2 2280

**PHISON PS5031-E31T**

\*Based solely on controller capability

Sequential Performance		Random Performance	
Read 10,800 MB/s	Write 10,800 MB/s	Read 1,500K IOPS	Write 1,500K IOPS

**PHISON**

## PS5027-E27T

Ride Along into the High-speed Lane

- PCIe Gen4x4
- TSMC 12nm process
- DRAM-less
- 4-channel with 16CEs
- Capacity up to 8TB
- 3D TLC / QLC supported
- Single CPU Architecture
- Phison 5<sup>th</sup> Gen LDPC + RAID ECC
- AES256 / TCG Opal / Pyrite
- Form Factor : M.2 2280

**PHISON PS5027-E27T**

\*Based solely on controller capability

Sequential Performance		Random Performance	
Read 7,400 MB/s	Write 6,700 MB/s	Read 1,200K IOPS	Write 1,200K IOPS

AI サーバーやクラウドサービスの普及する中、当社はそれぞれ最大 32TB までのデュアルポートおよびシングルポート容量をサポートする [PCIe 4.0「SSD X1」](#)、「SSD P1」、エンタープライズとデータセンター向け SSD フォームファクター（EDSFF）「E1.S」を採用した PCIe 5.0「PS5026-E26DC」と [PCIe 4.0「PS5018-E18DC」](#) などエンタープライズ SSD のフルレンジ アプリケーションの課題に対処できるように支援していきます。

## PHISON

### EPW5970-X1 / EPW0970-P1

Built for the Apex, Tailored to Your Needs

- PCIe Gen4x4
- TSMC 12nm process
- DDR4
- 16-channel
- Capacity up to 32TB
- 3D TLC supported
- Dual-port (X1) / Single-port (P1)
- Support NVMe-MI
- Power Loss Protection
- 256 Namespaces
- Up to 3 DWPD
- MTBF : 2.5 million hours
- Form Factor : U.3 / U.2



\* Based solely on controller capability.

Sequential Performance		Random Performance	
Read	7,400 MB/s	Read	1,750K IOPS
Write	6,900 MB/s	Write	470K IOPS

## PHISON

### PS5018-E18DC Solution

Lace Up the Boots for Your Server Game

- PCIe Gen4x4
- TSMC 12nm process
- DDR4
- 8-channel with 32CEs
- Capacity up to 3.84TB
- 3D TLC supported
- 32-bit ARM Cortex R5 (Triple CPUs)
- Phison 4<sup>th</sup> Gen LDPC + RAID ECC
- TCG Opal 2.0
- Power Loss Data Protection
- Multi Namespace
- Form Factor : M.2 / E1.S (with pFail)



\* Based solely on controller capability.

Sequential Performance		Random Performance	
Read	5,500 MB/s	Read	800K IOPS
Write	2,000 MB/s	Write	58K IOPS

## PHISON

### PS5026-E26DC Solution

Cloud-y with A Chance to Future

- PCIe Gen5x4
- TSMC 12nm process
- LPDDR4
- 8-channel with 32CEs
- Capacity up to 8TB
- 3D TLC supported
- 32-bit ARM Cortex R5 Dual-CPU cores
- Phison 5<sup>th</sup> Gen LDPC + RAID ECC
- TCG Opal 2.0
- Power Loss Data Protection
- Multi Namespace
- DWPD = 1
- Form Factor : E1.S (with pFail)



\* Based solely on controller capability.

Sequential Performance		Random Performance	
Read	13,500 MB/s	Read	1,500K IOPS
Write	12,000 MB/s	Write	2,000K IOPS

ファイソンの潘健成 CEO は次のように語りました。

「科学技術が 10 倍のスピードで進歩している中、半導体不足を経験した各国は半導体分野への投資を増やし、技術革新（中でも特に高速データ伝送とストレージ）が重要な役割を果たしています。こうした中、ファイソンは、[PCI-SIG 認証の世界初の PCIe 5.0 PS7101 リドドライバー IC](#) の実績を踏まえ、新世代の PCIe 5.0「PS7102」（8 チャンネル）、「PS7103」（16 レーン）リドドライバー IC を順次発売し、顧客が直面している高速信号劣化問題の解決を支援します。

## PS7102

### Overcoming the Gen5 Hurdle

- PCIe Gen5
- I<sup>2</sup>C mode support
- 8-Channel
- 4 Level I/O for EQ and GAIN setting to reduce pin count
- Max EQ Boosting 28.5dB
- Output linear range 1200mVppd
- Ultra low latency 70ps
- EQ setting support 2 dimension frequency
- Package type : FCLGA
- EQ auto-tuning tool
- Available for sample now
- Targeting IPC / servers / cables



PHITUNE Software tool can automatically set different gain parameters in the Redriver for the customer's development environment.

## PS7103

### Overcoming the Gen5 Hurdle

- PCIe Gen5
- I<sup>2</sup>C mode support
- 16-Lane
- 4 Level I/O for EQ and GAIN setting to reduce pin count
- Max EQ Boosting 28.5dB
- Output linear range 1200mVppd
- Ultra low latency 70ps
- EQ setting support 2 dimension frequency
- Package type : FCCSP
- Integrated AC coupling capacitors
- EQ auto-tuning tool
- Available for sample now
- Targeting IPC / servers / cables



AI ChatGPT などの出現により、AI サーバーやストレージの需要が増え、携帯電話の音声認識、コンピュータ支援ソフトウェア、産業オートメーション、自動運転車システムなどの様々な NAND ストレージアプリケーションが普及しています。こうした新たな NAND ストレージのニーズに応えるべく、ファisonはさまざま NAND ストレージ ソリューションを発売しました。当社初のハイエンドモバイル機器向け UFS 4.0 対応コントローラ「PS8361」、過酷な環境に対応した新世代 PCIe 4.0 SSD ソリューション「PS5021-E21TI」、PCIe 4.0 PS5021-E21TI をベースに AEC-Q100 車載認証に準拠した「MPT5 BGA SSD」、UFS 3.1 ストレージ ソリューション「PS8317 MUM7」などです。今回発表したこれらの製品により、顧客の付加価値のある NAND ストレージ ソリューション作成を支援しながらファisonは今後も成長していきます。」

詳細については、以下のリンクからご確認ください。

- ファison 2023 Computex: [www.phison.com/computex2023](http://www.phison.com/computex2023)
- ファisonは PCIe 5.0 のエコシステムの構築を支援します: [www.phison.com/gen5-e26-ssd-partner-ecosystem](http://www.phison.com/gen5-e26-ssd-partner-ecosystem)
- プレスキット: [www.phison.com/company/newsroom/event-press-kits/computex-2023](http://www.phison.com/company/newsroom/event-press-kits/computex-2023)

## UFS 4.0 PS8361

### Next-Gen UFS



- UFS 4.0 supported
- TSMC 12nm process
- 1 or 2ch, up to 3200 MT/s or 4ch, up to 1600 MT/s
- Maximum 8CEs (total)
- Phison 6<sup>th</sup> Gen LDPC + RAID ECC
- Capacity up to 1TB
- 3D TLC / QLC enabling
- Small package size 11 x 13mm
- MP schedule : 2Q24

Sequential Performance		Random Performance	
Read 4,500 MB/s	Write 2,800 MB/s	Read 500K IOPS	Write 500K IOPS

## PS5021-E21TI

### Diversity-driven In-field Upgrade



- PS5021-E21TI controller
- PCIe Gen4x4
- TSMC 12nm process
- DRAM-less
- 4-channel with 16CEs
- Capacity up to 2TB
- 3D TLC supported
- Single CPU architecture
- Phison 4<sup>th</sup> Gen LDPC + RAID ECC
- AES256 / TCG Opal / TCG Pyrite
- M.2 2280 / M.2 2230

Sequential Performance		Random Performance	
Read 4,900 MB/s	Write 3,700 MB/s	Read 700K IOPS	Write 900K IOPS



**PHISON**

## MPT5 BGA SSD

Fueling the Automotive Future

- PS5021-E21TI Controller
- PCIe Gen4x4 NVMe 1.4
- BGA SSD 1620
- DRAM-less
- 4-channel with 16CEs
- Capacity up to 1TB
- 3D TLC supported
- PHISON 4<sup>th</sup> Gen LDPC + RAID ECC
- AES256 / TCG Opal / Pyrite
- End-to-End Data Protection
- Host Memory Buffer (HMB) supported
- Thermal Monitoring
- Cross-Temperature Data Protection
- AEC-Q100 Grade3 (-40°C~85°C)
- AEC-Q100 Grade2 (-40°C~105°C)



**Sequential Performance**  
Read 3,700 MB/s  
Write 3,000 MB/s

**Random Performance**  
Read 380K IOPS  
Write 500K IOPS

**PHISON**

## UFS MUM7 Series

Powering Intelligent Driving

- UFS 2.1/2.2/3.1
- 64/128/256/512GB
- Application :
  - ADAS
  - Cockpit
  - IVI Systems
  - Navigation Map
- Automotive supply longevity : 5+ years
- AEC-Q100 - Grade2 / Grade3
- Mainstream SoC Platform Qualified



**Sequential Performance**  
Read Up to 1,550 MB/s  
Write Up to 1,000 MB/s

**Random Performance**  
Read 170K IOPS  
Write 200K IOPS

### [PHISON IR Distribution List Application Form]

If you would like to receive PHISON press release or announcement, please register our IR distribution application form from the link: [Phison IR Distribution List](#)

### [PHISON's Quick Facts]

- Over 22 years experiences in NAND controller IC design and module integration.
- Over 3,800 employees globally, and more than 70% are engineers
- Nearly 2,000 memory-related patents globally.
- Target long-term revenue of NT\$100 billion through the 5+5 growth strategy
- The global market share of SSD controller exceeds 20%
- NT\$60.256B sales revenue in 2022.
- Confident that our [unique business model](#) can produce consistently strong cashflows and profits over the long-term amidst NAND memory market cycles.
- Strongly maintain long-term partnerships with our global NAND flash supply sources and with our downstream module customers.

### [About PHISON]

Phison Electronics Corp. (TPEX:8299) is a global leader in NAND Flash controller IC and storage solutions. We provide a variety of services from controller design, system integration, IP licensing to total turnkey solutions, covering applications across SSD (PCIe/SATA/PATA), eMMC, UFS, SD and USB interfaces, reaching out to consumer, industrial and enterprise markets. As an active member of industry associations, Phison is on the Board of Directors for SDA, ONFI, UFSA and a contributor for JEDEC, PCI-SIG, MIPI, NVMe and IEEE-SA.

To know more about Phison, please visit [Phison Website](#) or [Phison Q&A](#) for details. Read more on our blog: [www.phisonblog.com](http://www.phisonblog.com)

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### [Forward-looking Statements]

Information included in this press release that are not historical in nature are "forward-looking statements". Phison cautions readers that forward-looking statements are based on Phison's reasonable knowledge and current expectations, and are subject to various risks and uncertainties. Actual results may differ materially from those contained in such forward-looking statements for a variety of reasons including without limitation, risks associated with demand and supply change, manufacturing and supply capacity, design-win, time to market, market competition, industrial cyclicality, customer's financial condition, exchange rate fluctuation, legal actions, amendments of the laws and regulations, global economy change, natural disasters, and other unexpected events which may disrupt Phison's business and operations. Accordingly, readers should not place reliance on any forward-looking statements. Except as required by law, Phison undertakes no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.