

First in Class Best in Performance

E26 PCIe Gen 5 client controller

Phison's first PCIe Gen 5 solution uses our outstanding architecture as a customizable solution to balance power, unique features, and class-leading performance. The E26 charges into the new year to meet the high demands from emerging workloads designed to take advantage of Gen 5 hardware.



"By helping to enable an ecosystem, Phison's customizable E26 SSD is at the forefront of PCIe Gen 5 introductions and will facilitate data center customers looking to benefit from the technology's increased performance."

Jeff Janukowicz, Research Vice President at IDC.

CONTROLLER

Features	Specifications
Host Interface	- PCIe 5.0 x4 (Bandwidth: 32GT/s x4) - Compliance with PCI Express Base Specification Revision 5.0 - Compliance with NVMe 2.0
Processor	- 2x ARM Cortex-R5 and 3x Proprietary IP CoXProcessor™ - TSMC 12nm process technology
Flash Controller	- Up to 8 Channels with 32 Chips Enable (CE) - Flash transfer rate up to 2,400MT/s - Capacity up to 32TB - Support 3D TLC and QLC NAND flash memory - Compliance with Toggle 5.0 and ONFi 5.0 - Flash I/O operating voltage supply 1.2V
DRAM Controller	- DDR4 & LPDDR4 (32 bit, 3200Mbps)
Data Reliability	- Phison 5th generation LDPC ECC & RAID ECC - DDR ECC engine - End-To-End Data Path Protection
Security	- AES 256 - SHA 512 - RSA 4096 - TCG Opal 2.0
Performance	- Sequential Read up to 12GB/s - Sequential Write up to 11GB/s - 4K Random Read up to 1,500K IOPS - 4K Random Write up to 2,000K IOPS
Power Management	- L1.2
Temperature Range	- Operating range: 0~70 °C - Storage range: -40~85 °C - Operating junction temperature: -40~125 °C
Package	- 576-ball FCCSP, 16 mm x 16 mm
Peripheral	- Built-in internal thermal sensor - GPIO pins - Built-in UART function - I3C and SPI for external ROM



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