KIOXIA

Enterprise Transformation with 24G SAS

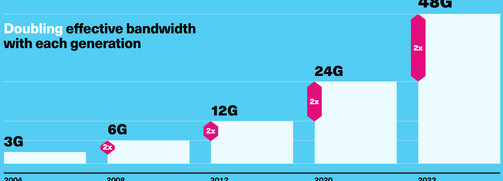
KIOXIA continues to drive innovation and development of the widely deployed and trusted data storage interface!

- Serial Attached SCSI (SAS) has 30+ years of proven reliability, performance, high-availability and data integrity
- Designed for enterprise servers and storage
- Connects SAS and SATA SSDs and HDDs

Serial Attached SCSI

SAS Roadmap

Doubling effective bandwidth with each generation



*Information based on SCSI Trade Association road map, September 2020

24G SAS Key Features

Serial Attached SCSI

Features	Benefits
22.5 Gb/s Transfer Rate	*Doubles Effective Performance*
128 / 150b Encoding + Forward Error Correction	*Enterprise Reliability and Data Integrity*
Adaptive PHY Training Algorithm	*Dynamically Optimizes Signal Integrity*
SAS Storage Intelligence	*Better SSD Management*

	12Gb/s SAS	vs. 24G SAS
Random Read IOPS	400,000	**595,000**
Random Write IOPS	90,000	**155,000**
Sequential Read Throughput	2,100 MB/s	**4,150 MB/s**
Sequential Write Throughput	2,000 MB/s	**3,700 MB/s**

*Performance comparison is based on publicly available performance specifications of a 1 DWPD 7.68TB PM6 Series SAS SSD and a leading 1 DWPD 7.68TB 12Gb/s SAS SSD

KIOXIA PM6 Series 24G SAS SSD

Endurance: 1, 3, 10 DWPD

Capacities: 400 GB – 30.72 TB[1]

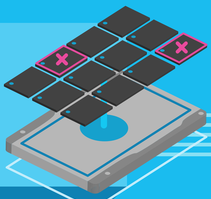
Security Options: Non-SED, SIE, SED, FIPS 140-2

SFF-TA-1001 Support (also known as U.3)

Comprehensive SAS SSD line up with a solution for any application

Confidential Two-Die Failure Recovery

Today, even a single die failure can render some SSDs inoperable, risking user data and system performance. KIOXIA's 6th generation SSD with Two-Die Failure Recovery allows for two NAND die to fail simultaneously, and the SSD will continue to function with full reliability.



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[1] KIOXIA Corporation defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1Gb = 2^{30} bits = 1,073,741,824 bits, 1GB = 2^{30} bytes = 1,073,741,824 bytes and 1TB = 2^{40} bytes = 1,099,511,627,776 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

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