

KIOXIA

Enterprise Transformation

with

24G SAS

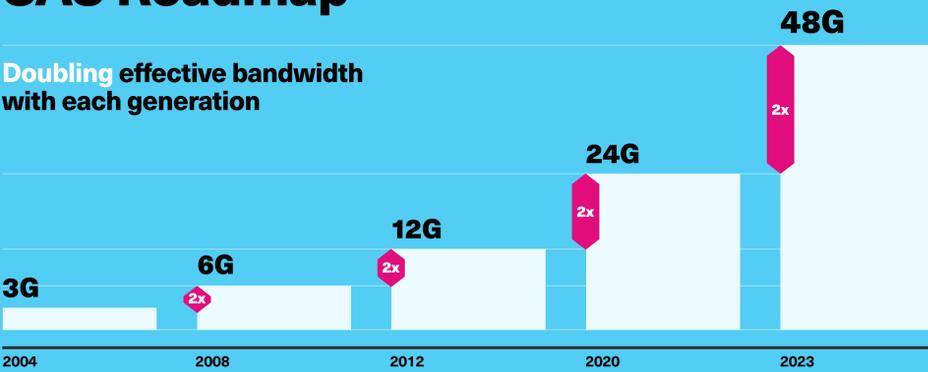
KIOXIA continues to drive innovation and development of the widely deployed and trusted data storage interface!

- 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**



SAS Roadmap

Doubling effective bandwidth with each generation



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

24G SAS Key Features



Features

22.5 Gb/s Transfer Rate

128 / 150b Encoding + Forward Error Correction

Adaptive PHY Training Algorithm

SAS Storage Intelligence

Benefits

Doubles Effective Performance

Enterprise Reliability and Data Integrity

Dynamically Optimizes Signal Integrity

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 TB¹

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

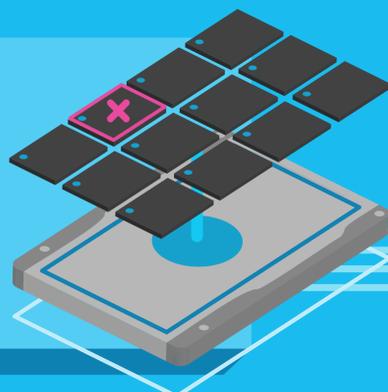
2.5-inch Form Factor (15mm Z-height)

Comprehensive SAS SSD line up with a solution for any application



Flash Die Failure Protection

Today, a NAND flash die failure can render some SSDs inoperable, risking user data and reducing system performance. KIOXIA Flash Die Failure Protection allows for a NAND die to fail 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 = 2³⁰ bits = 1,073,741,824 bits, 1GB = 2³⁰ bytes = 1,073,741,824 bytes and 1TB = 2⁴⁰ 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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For performance measurements, read and write speeds may vary depending on the host device, read and write conditions and file size.

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