

KIOXIA

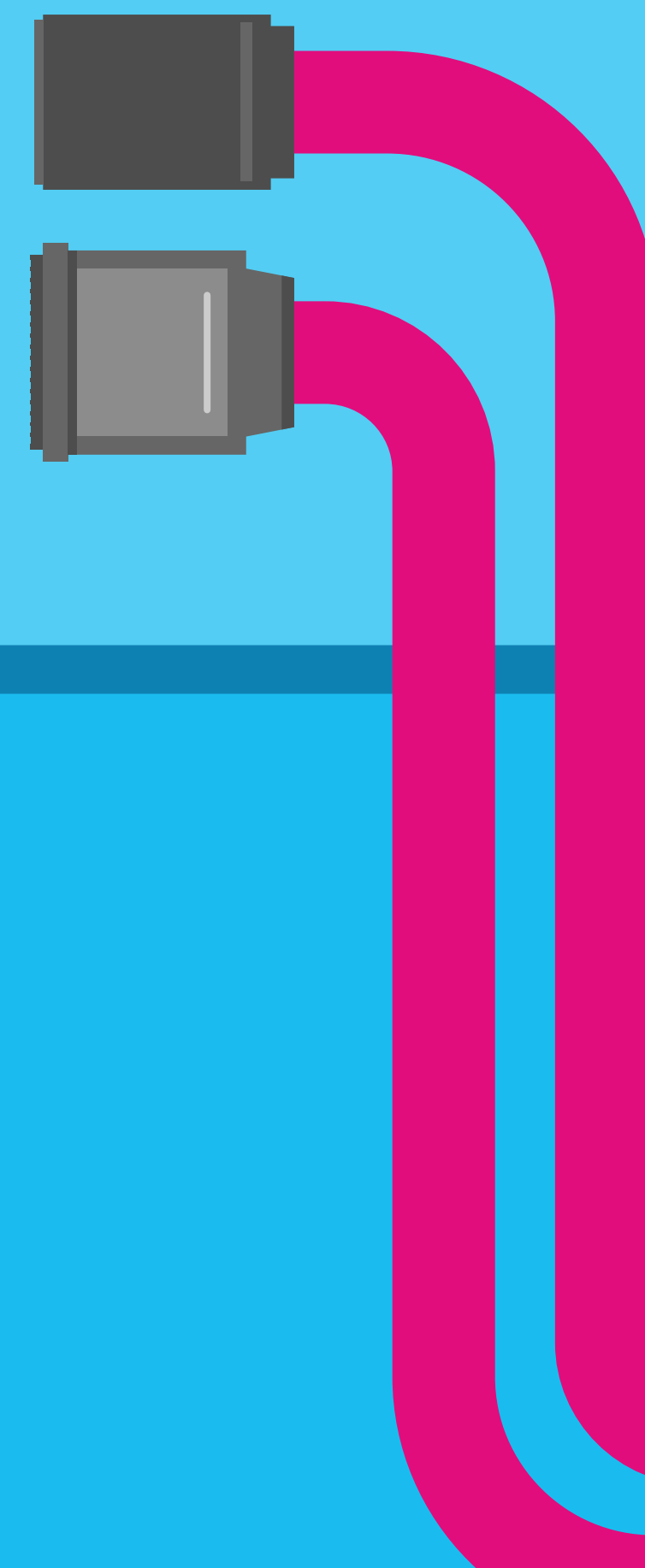
Enterprise Transformation

with

24G SAS

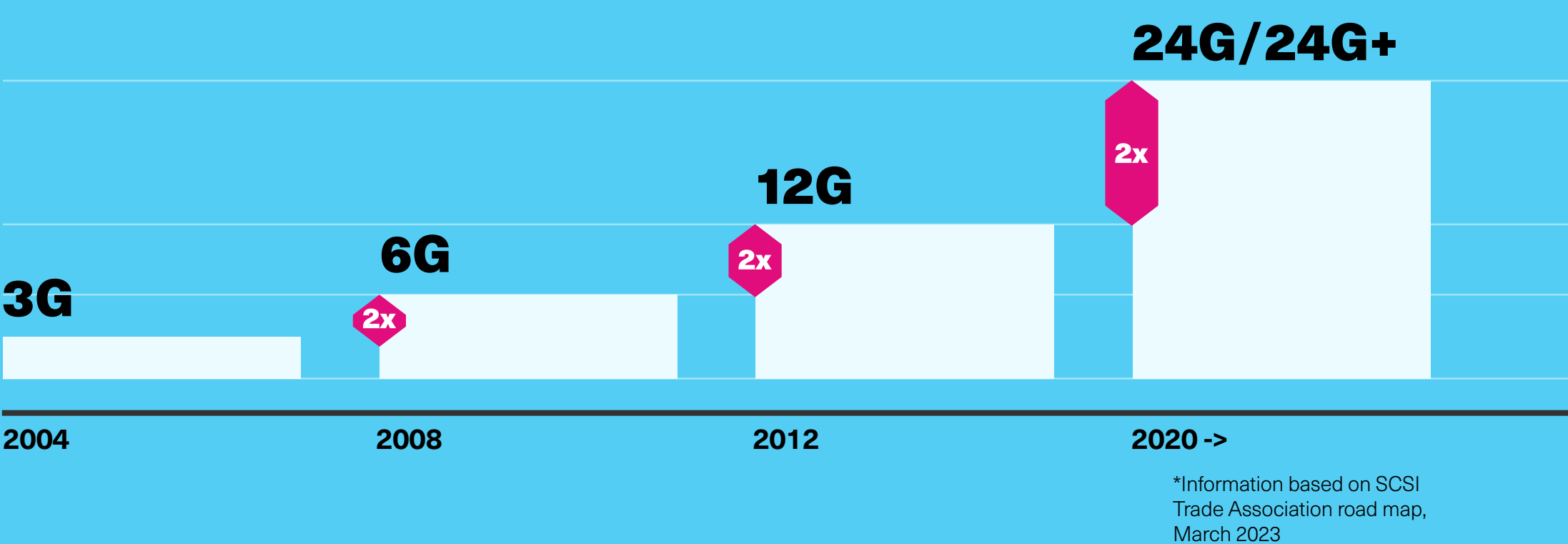
KIOXIA continues to drive innovation and development of the widely deployed and trusted data storage interface!

- 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



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

720,000

Random Write IOPS

90,000

175,000

Sequential Read Throughput

2,100 MB/s

4,200 MB/s

Sequential Write Throughput

2,000 MB/s

4,100 MB/s

*Performance comparison is based on publicly available performance specifications of a 1 DWPD 7.68 TB PM7 Series SAS SSD and a leading 1 DWPD 7.68 TB 12Gb/s SAS SSD

KIOXIA PM7 Series 24G SAS SSD

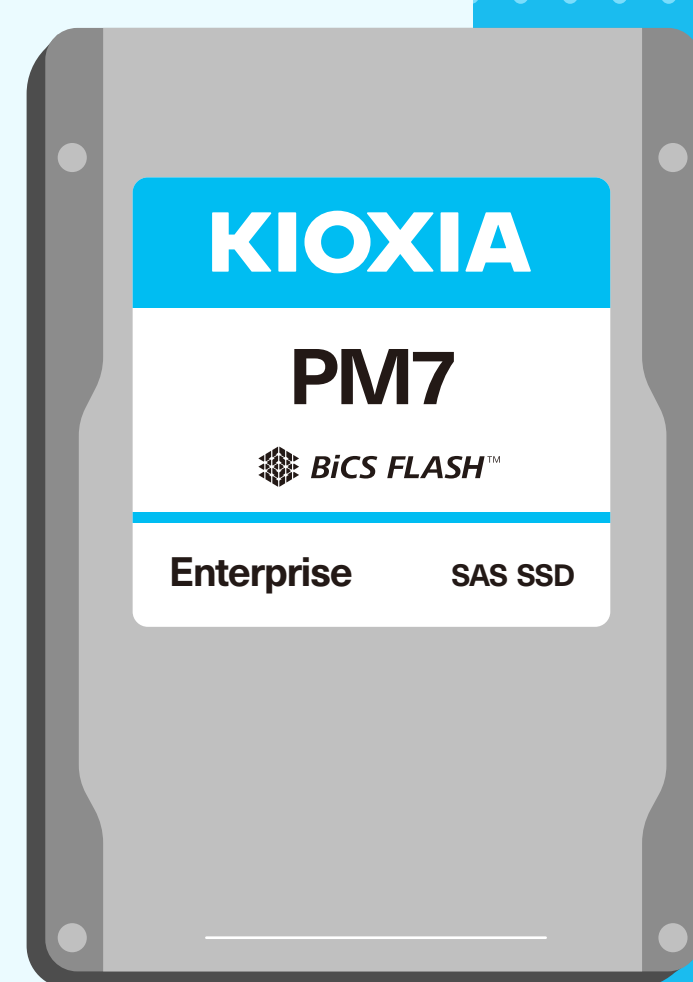
Endurance: 1, 3 DWPD

Capacities: 1.6 TB – 30.72 TB¹

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

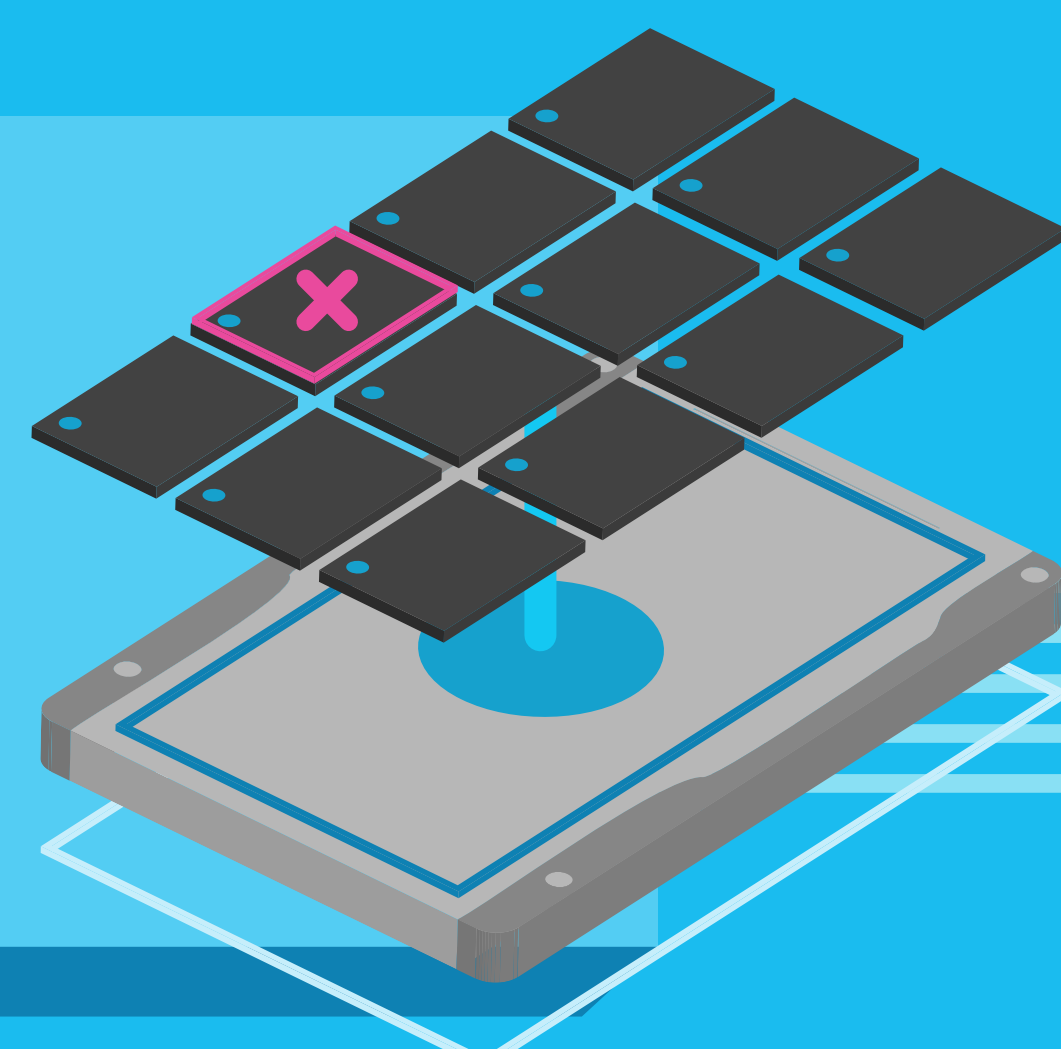
SFF-TA-1001 Support (also known as U.3)

Comprehensive SAS SSD line up with a solution for any application



Flash Die Failure Protection

KIOXIA Flash Die Failure Protection allows for a NAND die to fail and the SSD will continue to function with full reliability.



KIOXIA

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.

Information in this document, including product pricing and specifications, content of services, and contact information is current and believed to be accurate on the date of the announcement, but is subject to change without prior notice. Technical and application information contained here is subject to the most recent applicable KIOXIA product specifications. All other product names are the trademarks of their respective owners.

For performance measurements, read and write speeds may vary depending on the host device, read and write conditions and file size.