



Press Release

New KIOXIA RM7 Series Value SAS SSDs Debut on Hewlett Packard Enterprise Servers

Value SAS SSDs Used in the HPE Spaceborne Computer-2 Can Improve Performance, Reliability Over SATA SSDs on Latest ProLiant servers



Düsseldorf, Germany, 11 December 2023 – [KIOXIA Europe GmbH](https://www.kioxia.com/europe) today announced that its lineup of RM7 Series Value SAS SSDs are now available in HPE ProLiant Gen11 servers from Hewlett Packard Enterprise (HPE).

KIOXIA RM7 Series SSDs are the latest generation of the company's 12Gb/s Value SAS SSDs, which provide server applications with higher performance, reliability and lower latency than SATA SSDs. Proving there is 'Life After SATA,' Value SAS delivers higher IOPS/W and IOPS/\$^[1] than SATA.



In addition to being available in ProLiant servers, KIOXIA RM Series Value SAS SSDs are being used in the HPE Spaceborne Computer-2 (SBC-2). As part of the program, KIOXIA SSDs provide robust flash storage in HPE Edgeline and HPE ProLiant servers in a test environment to conduct scientific experiments aboard the International Space Station (ISS).

KIOXIA RM7 Series Value SAS SSD Overview

- 12 gigabit per second (Gb/s) SAS interface (SAS-3), single-port
- Capacities from 960 gigabytes to 7.68 terabytes^[2]
- Endurance options include 1 drive write per day (DWPD^[3]) and 3 DWPD
- Random read performance up to 190,000 IOPS (4k @ 512 queue depth); sequential read performance up to 1,100 megabytes/second (128K)^[4]
- Sanitize instant erase (SIE) for fast and secure cryptographic erase^[5]

“Introduced in 2019, the KIOXIA Value SAS technology and product line is now available in its 3rd generation on HPE servers,” said Paul Rowan, Vice President SSD Marketing and Engineering, KIOXIA Europe GmbH. He continues: “We are very excited to see the robust and lower power consumption enterprise-class Value SAS SSDs running on HPE SBC-2 for the next few years.”

KIOXIA has been collaborating with HPE to bring KIOXIA best-in-class storage to HPE ProLiant servers for years and enable a broad range of solutions, from mobile to data center to enterprise. Value SAS SSDs are part of the KIOXIA ‘Life After SATA’ campaign, enabling customers to easily transition away from SSDs using the rapidly aging SATA protocol, while delivering higher performance and reliability.

“To further accelerate exploration with our Spaceborne project, HPE needed a storage technology that could handle the rigorous and harsh environments of space,” said Norm Follett, Senior Director of Space Technologies & Solutions, HPE. “Value SAS technology delivered on all the requirements and we’re pleased to collaborate with KIOXIA for our next mission to the ISS scheduled in January.”



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Notes:

1: IOPS/W = input-output operations per second, per watt. IOPS/\$ = input-output operations per second, per dollar. These are metrics to describe performance benefits for a watt of energy and dollar of cost.

2: Definition of capacity: 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} 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.

3: DWPD: Drive Write(s) Per Day. One full drive write per day means the drive can be written and re-written to full capacity once a day every day under the specified workload for the specified lifetime.. Actual results may vary due to system configuration, usage and other factors.

4: Read and write speed may vary depending on various factors such as host devices, software (drivers, OS etc.), and read/write conditions.

5: SIE optional model supports Crypto Erase, which is a standardized feature defined by the technical committees (SCSI) of INCITS (the InterNational Committee for Information Technology Standards).

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About KIOXIA Europe GmbH

KIOXIA Europe GmbH (formerly Toshiba Memory Europe GmbH) is the European-based subsidiary of KIOXIA Corporation, a leading worldwide supplier of flash memory and solid-state drives (SSDs). From the invention of NAND flash memory to today's breakthrough BiCS FLASH™ 3D flash memory KIOXIA continues to pioneer innovative memory solutions and services that enrich people's lives and expand society's horizons. The company's innovative BiCS FLASH™ 3D flash memory technology is shaping the future of storage in high-density applications, including advanced smartphones, PCs, SSDs, automotive and data centers.

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