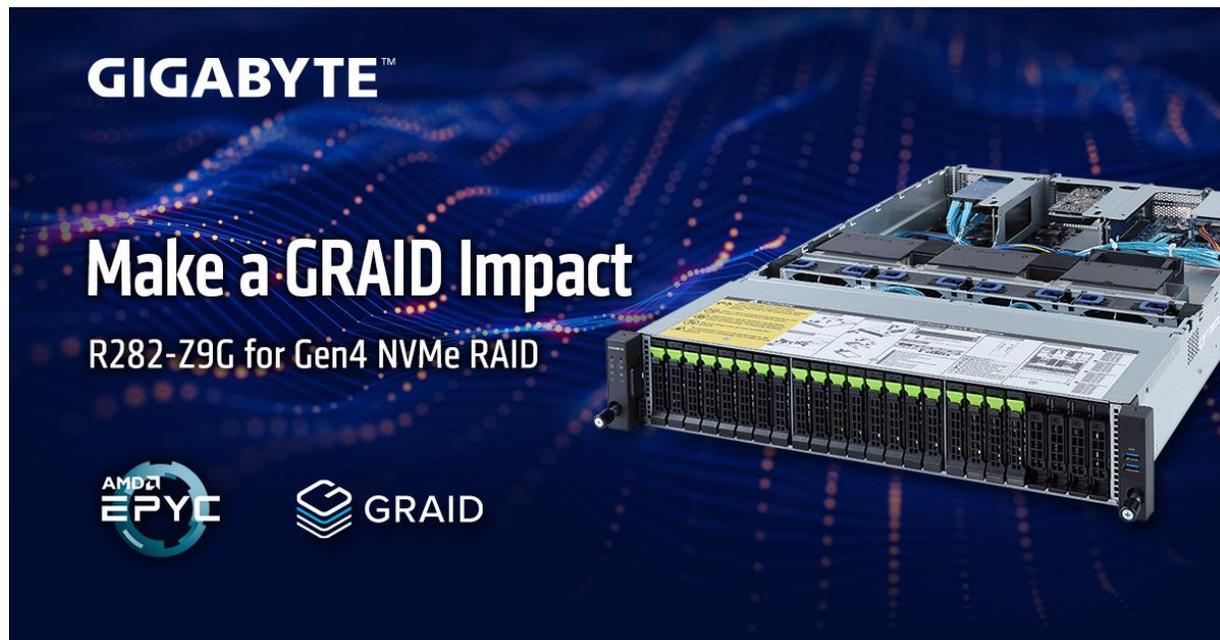
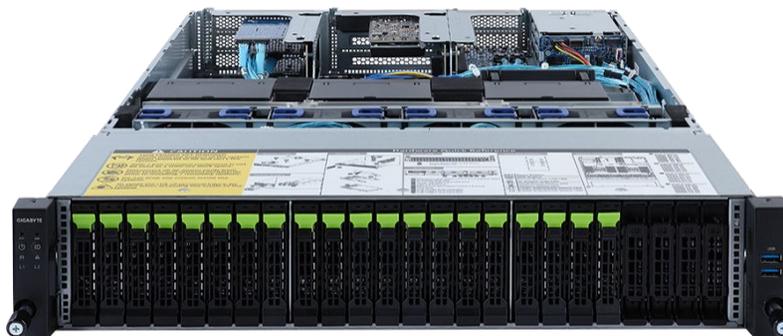


GIGABYTE Announces a Unique Server Solution to RAID Drawbacks with GRAID SupremeRAID™



[October 25th, 2021]: GIGABYTE Technology, (TWSE: 2376), an industry leader in high-performance servers and workstations, today announced a new server, GIGABYTE R282-Z9G, that gets around hardware and software RAID limitations that bottlenecks RAID when used with NVMe SSDs. Continuing in the success of the R282 series, the new SKU was designed to house an all-in-one server solution that specifically targets high performance NVMe (Gen4) SSD drives for RAID by incorporating the GRAID SupremeRAID™ solution into the [R282-Z9G](#). This is the first GIGABYTE server to incorporate a GRAID Technology solution and has proven to be highly successful with Kioxia CM6-R SSDs.



R282-Z9G: GRAID SupremeRAID™ Solution

R282-Z9G: GRAID for RAID

More and more companies are using flash storage and doing so on a larger scale; however, there are pitfalls when using software or hardware RAID, such as limitations in computing performance or consuming a large amount of CPU resources. To solve these problems and to do so with a large number of drives, the GRAID SupremeRAID™ solution works by installing a virtual NVMe controller on the OS while integrating a PCIe device for high performance. With this GIGABYTE solution over 100GB/s of throughput is possible for workloads in HPC, 4K/8K video editing, high-frequency trading (HFT), online transaction processing (OLTP), or database processing.

The R282-Z9G comes with the GRAID card installed and has shown optimal performance with up to 20 x Kioxia CM6 drives. The R282-Z9G supports dual AMD EPYC 7003 processors up to 64 cores and a max TDP of 240W. Given the dual socket design, there are 32 DIMM slots available for 2 DIMMs per channel for the 8-channel memory configuration.

To support 20 x Gen4 U.2 drives in the front for RAID, PCIe slots are populated with riser cards and the OCP mezzanine slots as well, leaving a PCIe 4.0 x16 FHHL slot available for high-speed networking. At the rear of the case are an additional 2 x 2.5" SATA SSD bays. On the rear of the case are USB 3.0 ports, VGA port for local management, and a pair of 1GbE LAN ports. The system is powered by redundant 1600W power supplies.

“If you’re going to make the investment in Gen4 (and soon Gen5) SSDs, you don’t want to be leaving performance on the table,” said Brian Beeler the president of [StorageReview.com](https://www.storage-review.com) in his latest review of the storage adapter. “The GRAID SupremeRAID solution is absolutely phenomenal, we were blown away by the efficacy of this simple to use card and accompanying software.”



GRAID SupremeRAID™ SR-1000

For more information about the R282-Z9G GIGABYTE solution with GRAID Technology, please visit [GIGABYTE’s Insight Blog](#) or [read the whitepaper here](#).

About GIGABYTE



GIGABYTE is an engineer, visionary, and leader in the world of tech that uses its hardware expertise, patented innovations, and industry leadership to create, inspire, and advance. Renowned for over 30 years of award-winning excellence in motherboards and graphics cards, GIGABYTE is a cornerstone in the HPC community, providing businesses with server and data center expertise to accelerate their success. At the forefront of evolving technology, GIGABYTE is devoted to inventing smart solutions that enable

digitalization from edge to cloud, and allow customers to capture, analyze, and transform digital information into economic data that can benefit humanity and "Upgrade Your Life". Please visit <https://www.gigabyte.com/> for more information.

Learn more about GIGABYTE servers: <https://www.gigabyte.com/Enterprise>

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About GRAID Technology



GRAID SupremeRAID™ is the world's first NVMe and NVMeoF RAID card to unlock the full potential of your SSD performance. Named one of the Ten Hottest Data Storage Startups of 2021 by CRN, is headquartered in Silicon Valley, California with an R&D center in Taipei, Taiwan, and is composed of a dedicated team of experts with decades of experience in the SDS, ASIC and storage industries. Contact us today to find out how GRAID's NVMe solution can accelerate your high-performance workloads. Book a

demo today: <https://www.graidtech.com//graid-demo>

Learn more about GRAID SupremeRAID: <https://www.graidtech.com/>

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