Gigabyte S183-SH0 X SupremeRAID™ SR-1010 Series

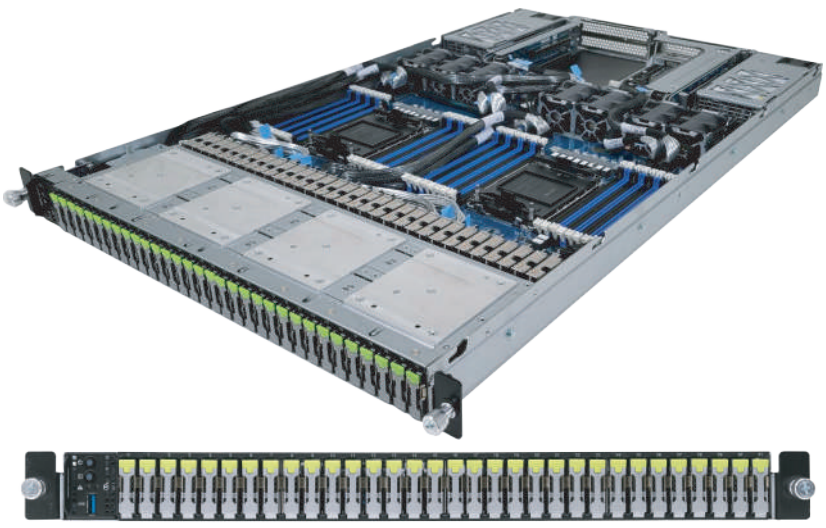
Future of Computing

step into the computing of tomorrw today

GIGABYTE™ GRAID

Overview

E1.S PCIe Gen5 32bays



▶ S183- SH0

- 2S Intel Sapphire Rapids CPU
- 32 x DIMM slots support 8 channel/ DDR5 3DS RDIMM/ LRDIMM 4800/4400 MHz
- 32 x E1.S(9.5mm), 2xM.2 supports
- 3 x FHHL PCIe slot(2 x Gen5x8, 1 x Gen5x16)
- Support CXL1.1

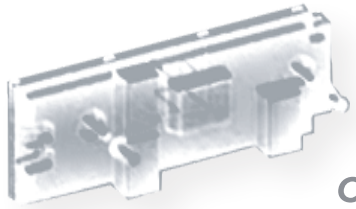
Application

- Software-defined Storage
- In-Memory Computing
- Data Intensive HPC
- Private& Hybrid Cloud
- NVMe Over Fabrics Solution

1U EDSFF compact system

Fan-less VCH Module kit

☑ Performance ☑ Reliability ☑ Power Saving



Coming Soon

▶ SupremeRAID™ SR-1010 series

- Supported RAID levels: RAID 0,1,5,6,10
- Max Physical Drives: 32
- Max Drive Groups:8
- Max Virtual Drives per Drive Group:1023
- Max Drive Group Size: Defined by physical drive size
- OS Support:
  AlmaLinux/ Rocky Linux/ CentOS/ openSUSE Leap/ RHEL/ SLES 15/ Ubuntu/ Windows Server/ Windows
  (For more details please refer to OS compatibility table in support page)
- Host Interface: x16 PCIe Gen 4.0

Unbeatable Performance

SupremeRAID™ cutting edge technology eliminates the traditional RAID bottleneck to unlock the full potential of your SSD performance. A single SupremeRAID™ SR-1010 is capable of delivering **19 million IOPS and 220 GB/s of throughput**

Flexible & Future Ready

Unmatched flexibility with features like new O/S support, compression, encryption, thin provisioning, or bo drive protection easily added with software releases

World Record Performance

Full NVMe performance with a single card: 19M IOPS and 220GB/s throughput based on RAID5 with 4th Generation Intel® Xeon Scalable Platform

Highly Scalable

Easily manage 32 direct attached NVMe SSDs; extend data protection without sacrificing performance with Software Composable Infrastructure

Plug & Play

Effortless installation, no cabling or motherboard re-layout required; direct connect to SSD without PCIe switches

Free Up CPU Resources

Offload your entire RAID computation to SupremeRAID™ to free-up CPU computing resources for 5G, AI and AIoT applications

Easy to Use

SupremeRAID™ doesn't rely on memory caching technology, eliminating the need for battery backup modules

19M IOPS

220GB/s Throughput

UP TO **100%** SSD Performance

80% Cost Savings

UP TO **20X** Faster

	SupremeRAID™ SR-1010-FD32	Hardware RAID
4k Random Read	19 M IOPS	3.5 M IOPS
4k Random Write	1500 k IOPS	180k IOPS
1M Sequential Read	220 GB/s	13.5 GB/s
1M Sequential Write	90 GB/s	4 GB/s
4k Random Read In Rebuild	5.5 M IOPS	36k IOPS

*Based on Linux RAID5 with Intel Xeon Gold 6430 CPU 32-Core with 2.1GHz x 2

Innovations In The World of Data

"SupremeRAID™ not only delivers maximum performance from SSDs, but also increases performance by using multiple carriers in one RAID — all without straining the processor."

WOJCIECH URBANEK
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DEC. 2022

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Are You Ready to Unleash Your Data Performance?

Don't get left behind, join the future of enterprise data protection. Contact us today.

Giga Computing Technology is an industry innovator and leader in the enterprise computing market. Having spun off from GIGABYTE, we offer a complete product portfolio that addresses all workloads from the data center to edge including traditional and emerging workloads in HPC and AI to data analytics, 5G/edge, cloud computing, and more.

Graid Technology Inc. is headquartered in Silicon Valley, with a sales office in Ontario and an R&D center in Taipei, Taiwan. Our leadership is composed of a dedicated team of experts with decades of experience in the SDS, ASIC and storage industries. Learn more at www.graidtech.com/news.

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