# SupremeRAID<sup>™</sup>SR-1010

SPEC SHEET

The ultimate in flexibility and choice. SupremeRAID<sup>™</sup> SR-1010 is the world's fastest NVMe/NVMeoF RAID card, designed to deliver the full potential of PCIe Gen4 systems in enterprise data centers. The SR-1010 increases performance of both reads and writes while maintaining the superior level of data protection GRAID's customers and partners have come to expect.

## **Unbeatable Performance**

Named one of the Ten Hottest Data Storage Startups of 2021 by CRN, GRAID SupremeRAID<sup>™</sup> performance is already winning awards and breaking world records. Contact us today to find out how SupremeRAID<sup>™</sup> SR-1010 NVMe/NVMeoF PCIe Gen 4 RAID card can unlock the potential of your high performance workloads.

	Linux Environment			Windows Environment		
OPTIMAL	RAID 5	RAID 6	RAID 10	RAID 5	RAID 6	RAID 10
4k Random Read	19 M IOPS	19 M IOPS	19 M IOPS	2 M IOPS	2 M IOPS	2 M IOPS
4k Random Write	1.5 M IOPS	1 M IOPS	6 M IOPS	600 k IOPS	450 k IOPS	1 M IOPS
1M Sequential Read	110 GB/s	110 GB/s	110 GB/s	74 GB/s	68 GB/s	70 GB/s
THROUGHPUT  1M Sequential Write THROUGHPUT	22 GB/s	21 GB/s	25 GB/s	15 GB/s	15 GB/s	35 GB/s

REBUILD REBUILD SPEED=LOW	Linux Environment		Windows Environment			
4k Random Read	5.5 M IOPS	5.5 M IOPS	9 M IOPS	300 k IOPS	350 k IOPS	2 M IOPS
4k Random Write	1.1 M IOPS	800 k IOPS	5 M IOPS	500 k IOPS	500 k IOPS	1 M IOPS
1M Sequential Read	23 GB/s	24 GB/s	55 GB/s	21 GB/s	21 GB/s	15 GB/s
1M Sequential Write	21 GB/s	21 GB/s	25 GB/s	12 GB/s	12 GB/s	13 GB/s

BASED ON TESTING SPECIFICATIONS LISTED ON SIDE 2

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### **Contact Us Now**

CALL 1 (866) GRAID-10 EMAIL info@graidtech.com WEB graidtech.com DOWNLOAD THE SR-1010 BROCHURE
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INNOVATION AWARDS

2022

DATA CENTER WORLD

STARTUP

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Test Environment Specifications | Software: Linux Version: CentOS 8.5; Windows Version: Windows Server 2019 | Hardware: CPU: Intel(R) Xeon(R) Gold 6338 CPU 32-Core with 2.0GHz x 2, Memory: SK Hynix HMA82GR7CJR8N -XN DIMM DDR4 3200 MHz 16GB x 16, SSD: INTEL SSDPF2KX038TZ 3.8TB | RAID Configuration: Random performance based on a drive group with 12 physical drives and 1 virtual drive; sequential performance based on a drive group with 20 physical drives and 1 virtual drive



GRAID

### SR-1010 Software Specs

Supported RAID levels	RAID 0, 1, 5, 6, 10
Max Physical Drives	32
Max Drive Groups	4
Max Virtual Drives per Drive Group	8
Max Drive Group Size	Defined by physical drive size
OS Support	Linux: AlmaLinux 8.5 Rocky Linux 8.5 CentOS 7.9, 8.4, 8.5 openSUSE Leap 15.2, 15.3 RHEL 7.9, 8.4, 8.5 SLES 15 SP2, SP3 Ubuntu 20.04 Windows Server 2019 x86-64 Windows Server 2022 x86-64

### SR-1010 Card Specs

Host Interface	x16 PCle Gen 4.0
Max Power Consumption	70 W
Form Factor	2.713" H x 6.6" L, Single Slot
Product Weight	306 g

## $\oslash$

#### Flexible & Future Ready

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



#### World Record Performance

SupremeRAID<sup>™</sup> SR-1010 increases read performance to up 19M IOPS and 110GB/s throughput and write performance up to 1.5M IOPS and 22GB/s throughput in RAID5/6



#### **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 PCle switches



#### Free Up CPU Resources

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



#### Easy To Use

GRAID SupremeRAID<sup>™</sup> doesn't rely on memory caching technology, eliminating the need for battery backup modules

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