SupremeRAID™ SR-1000

SPEC SHEET

Introducing the world's first NVMe and NVMeoF RAID card to unlock the full potential of your SSD performance. GRAID SupremeRAID™ cutting edge technology eliminates the traditional RAID performance bottleneck to deliver world-record performance, comprehensive data protection, and unmatched flexibility at the lowest TCO on the market.

GRAID

DATA CENTER WORLD
🏆 2022 STARTUP CHALLENGE WINNER

THE CHANNEL CO.
CRN
THE TOP 10 DATA STORAGE STARTUPS 2021

CES INNOVATION AWARDS 2022 HONOREE

World-Record Performance

Named one of the Ten Hottest Data Storage Startups of 2021 by CRN, as well as CES 2022 Innovation Award Honoree, GRAID SupremeRAID™ performance is breaking world records. Contact us today to find out how GRAID's NVMe solution can unlock the full 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 IOPS	16 M IOPS	16 M IOPS	16 M IOPS		2 M IOPS	2 M IOPS	2 M IOPS
4k Random Write IOPS	820 k IOPS	450 k IOPS	6 M IOPS		500 k IOPS	450 k IOPS	1 M IOPS
1M Sequential Read THROUGHPUT	110 GB/s	110 GB/s	110 GB/s		65 GB/s	60 GB/s	70 GB/s
1M Sequential Write THROUGHPUT	11 GB/s	11 GB/s	25 GB/s		9 GB/s	9 GB/s	35 GB/s

	Linux Environment				Windows Environment		
REBUILD REBUILD_SPEED=LOW							
4k Random Read IOPS	3 M IOPS	3 M IOPS	9 M IOPS		350 k IOPS	350 k IOPS	2 M IOPS
4k Random Write IOPS	600 k IOPS	400 k IOPS	5 M IOPS		400 k IOPS	370 k IOPS	1 M IOPS
1M Sequential Read THROUGHPUT	12 GB/s	13 GB/s	55 GB/s		12 GB/s	13 GB/s	15 GB/s
1M Sequential Write THROUGHPUT	11 GB/s	11 GB/s	25 GB/s		8 GB/s	8 GB/s	13 GB/s

BASED ON TESTING SPECIFICATIONS LISTED ON SIDE 2   BASED ON TESTING SPECIFICATIONS LISTED ON SIDE 2

Contact Us Now

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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 D7-P5510 SSDPF2KX038TZ 3.8TB x 20 | **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

SR-1000 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-1000 Card Specs

Host Interface	x16 PCIe Gen 3.0
Max Power Consumption	50 W
Form Factor	2.713" H x 6.137" L, Single Slot
Product Weight	132.6 g

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

Full NVMe performance with a single card: 16M IOPS and 110GB/s throughput based on RAID5 with 3rd Generation Intel® Xeon Scalable Platform and Intel D7-P5510

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 the GRAID card to free-up CPU computing resources for 5G, AI, and AIoT applications

Easy to Use

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

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