

Cloud & Enterprise Servers

SupremeRAID™ SR-1010

The Best Solution for NVMe RAID: SupremeRAID™ is a software-defined RAID solution on a GPU, designed to deliver maximum SSD performance without consuming CPU cycles or creating throughput bottlenecks. Out-of-path RAID protection technology means data travels directly from the CPU to deliver unmatched flexibility, unprecedented NVMe/NVMeoF performance, and overall superior value.



SR-1010
**For 2U
Cloud &
Enterprise
Servers**

Supports up to
32 SSDs

Protecting NVMe-based Data From The Cloud To The Desktop: SupremeRAID™ SR-1010 is a PCIe Gen 4 card that supports up to 32 SSDs, and delivers superior performance and flexibility for cloud and enterprise servers. SupremeRAID™ SR-1010 is the perfect storage choice for enterprise data centers, broadcast outlets, studios, CSPs, MSPs, research, oil & gas, and HPC. Its powerful performance capabilities are well suited for applications such as AI/ML, databases, Fintech (High Frequency Trading), streaming media, 4K and 8K video, as well as any performance-hungry application.

28M
IOPS

260GB/s
Throughput

UP TO **100%**
SSD Performance

80%
Cost Savings

9x
Faster

	SupremeRAID™ SR-1010	Software RAID	Hardware RAID
4K Random Read	28 M IOPS	~2 M IOPS	6.9 M IOPS
4K Random Write	2 M IOPS	200 K IOPS	651 K IOPS
1M Sequential Read	260 GB/s	~9 GB/s	28.2 GB/s
1M Sequential Write	100 GB/s	2 GB/s	10.4 GB/s
4K Random Read (Rebuild)	5.5 M IOPS	Unknown	1 M IOPS
4K Random Write (Rebuild)	1.1 M IOPS	Unknown	548 K IOPS
CPU Utilization	None	High	None
Data Protection	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 10	RAID 0, 1, 5, 6
NVMeoF Support	Yes	Yes	No
Flexibility	High	Limited by CPU	None
Max SSDs Supported	32	32	8

Based on Linux RAID5 with AMD EPYC 9654 96-Core Processor x 2 and KIOXIA CM7 x 24



SupremeRAID™ SR-1010

[View Linux Release Notes](#)

[View Windows Release Notes](#)



SR-1010
For 2U
Cloud &
Enterprise
Servers

Supports up
to 32 SSDs

SR-1010 Software Specs

Supported RAID levels:

RAID 0, 1, 5, 6, 10

Max Physical Drives: 32

Max Drive Groups:

Linux: 8 / Windows: 4

OS Support:

AlmaLinux 8

CentOS 7 / 8

Debian 11

openSUSE Leap 15

Oracle Linux 7 / 8 / 9

SLES 15

RHEL 7 / 8 / 9

Rocky Linux 8

Ubuntu 20.04 / 22.04

Windows Server 2019 / 2022

Windows 11

**Max Virtual Drives
per Drive Group:**

Linux: 1023 / Windows: 8

Max Drive Group Size:

Defined by physical drive size

Supported NVMe SSDs:

Dapustor, Hagiwara, Kingston Technologies, KIOXIA, Memblaze, Micron, Phison, Samsung, Scaleflux, Seagate, Solidigm, Western Digital

Supported Platforms:

AMD, ARM, Intel

**Supported Virtualization
Environments:**

KVM, Proxmox VE, Virtuozzo OpenVZ, VMWare Workstation Pro 17, Windows Server Hyper-V

SR-1010 Card Specs

Host Interface:

x16 PCIe Gen 4.0

Max Power Consumption:

70 W

Form Factor:

2.713" H x 6.6" L, Dual Slot

Product Weight:

306 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

Unprecedented NVMe/NVMeoF performance up to 28M IOPS and 260GB/s throughput with a single SupremeRAID™ card delivers the full value of your server investment



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

“We’re perpetually impressed with the extreme storage performance SupremeRAID™ enables. For maximizing NVMe SSD performance, we haven’t seen anything on the market that can touch the SupremeRAID™ Gen5 solution. It’s fantastic, plus we’re doing the work on an inexpensive NVIDIA A2000 GPU.”

“Gone are the days of IO bottlenecks... SupremeRAID™ is the perfect platform for AI/ML, IoT, video processing, and other performance-hungry applications.”

Cloud & Enterprise Servers

SupremeRAID™ SR-1010



SR-1010
For 2U
Cloud &
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Servers

Supports up
to 32 SSDs

	Linux Environment		
	RAID 5	RAID 6	RAID 10
OPTIMAL			
4K Random Read IOPS	28 M IOPS	28 M IOPS	24 M IOPS
4K Random Write IOPS	2 M IOPS	1.5 M IOPS	12 M IOPS
1M Sequential Read THROUGHPUT	260 GB/s	260 GB/s	260 GB/s
1M Sequential Write THROUGHPUT	100 GB/s	100 GB/s	70 GB/s

	Windows Environment		
	RAID 5	RAID 6	RAID 10
4K Random Read IOPS	2.2 M IOPS	2.2 M IOPS	2.2 M IOPS
4K Random Write IOPS	1.3 M IOPS	1 M IOPS	1.6 M IOPS
1M Sequential Read THROUGHPUT	80 GB/s	80 GB/s	80 GB/s
1M Sequential Write THROUGHPUT	16 GB/s	16 GB/s	20 GB/s

	Linux Environment		
	RAID 5	RAID 6	RAID 10
REBUILD			
4K Random Read IOPS	5.5 M IOPS	5.5 M IOPS	18 M IOPS
4K Random Write IOPS	1.1 M IOPS	800 k IOPS	12 M IOPS
1M Sequential Read THROUGHPUT	23 GB/s	24 GB/s	130 GB/s
1M Sequential Write THROUGHPUT	21 GB/s	21 GB/s	70 GB/s

	Windows Environment		
	RAID 5	RAID 6	RAID 10
4K Random Read IOPS	1.6 M IOPS	1.6 M IOPS	2 M IOPS
4K Random Write IOPS	1 M IOPS	800 K IOPS	1.6 M IOPS
1M Sequential Read THROUGHPUT	21 GB/s	21 GB/s	30 GB/s
1M Sequential Write THROUGHPUT	12 GB/s	12 GB/s	20 GB/s

Linux Testing Specifications: Server: Supermicro AS-2125HS-TNR x1; CPU: AMD EPYC 9654 96-Core Processor x2; Memory: Samsung M321R2GA3BB6-CQKVS DDR5 16GB x24; SSD: Kioxia CM7 KCMY1RUG3T84 x24; RAID Controller: SR-1010 x1; OS: Ubuntu 20.04.4 LTS; Kernel: 5.4.0-155-generic; Benchmarking tool: fio-3.16; SupremeRAID™ Driver version: 1.5.0-rc1-20230804.gcf5e69d8

Windows Testing Specifications: Server: Supermicro SYS-220U-TNR x1; CPU: Intel Xeon Gold 6338 CPU @ 2.00GHz x2; Memory: SK Hynix HMA82GR7CJR8N-XN 16GB DDR4-3200 RDIMM x16; NVMe Drive: Solidigm D7-P5510 x16; RAID Controller: SR-1010 x1; OS: Windows 2022, Driver Version: 1.2.3-185; SupremeRAID™ driver version: 1.2.3; max performance based on a group with 16 physical drives and 2 virtual drives.

SupremeRAID™: Protecting NVMe-based Data From The Cloud To The Desktop

Graid Technology Inc. is headquartered in Silicon Valley, with 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 graidtech.com.

Learn More: info@graidtech.com

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 Graid Technology Inc.

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Cloud & Enterprise Servers

SupremeRAID™ SR-1000

The Best Solution for NVMe RAID: SupremeRAID™ is a software-defined RAID solution on a GPU, designed to deliver maximum SSD performance without consuming CPU cycles or creating throughput bottlenecks. Out-of-path RAID protection technology means data travels directly from the CPU to deliver unmatched flexibility, unprecedented NVMe/NVMeoF performance, and overall superior value.



**SR-1000
For 1U
Cloud &
Enterprise
Servers**

Supports up to 32 SSDs

Protecting NVMe-based Data From The Cloud To The Desktop: SupremeRAID™ SR-1000 is a PCIe Gen 3 card that supports up to 32 SSDs, and delivers superior performance and flexibility for cloud and enterprise servers. SupremeRAID™ SR-1000 is the perfect storage choice for enterprise data centers, broadcast outlets, studios, CSPs, MSPs, research, oil & gas, and HPC. Its powerful performance capabilities are well suited for applications such as AI/ML, databases, Fintech (High Frequency Trading), streaming media, 4K and 8K video, as well as any performance-hungry application.

16M
IOPS

220GB/s
Throughput

UP TO 100%
SSD Performance

80%
Cost Savings

8x
Faster

	SupremeRAID™ SR-1000	Software RAID	Hardware RAID
4K Random Read	16 M IOPS	~2 M IOPS	6.9 M IOPS
4K Random Write	820 K IOPS	200 K IOPS	651 K IOPS
1M Sequential Read	220 GB/s	~9 GB/s	28.2 GB/s
1M Sequential Write	90 GB/s	2 GB/s	10.4 GB/s
4K Random Read (Rebuild)	3 M IOPS	Unknown	1 M IOPS
4K Random Write (Rebuild)	600 K IOPS	Unknown	548 K IOPS
CPU Utilization	None	High	None
Data Protection	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 10	RAID 0, 1, 5, 6
NVMeoF Support	Yes	Yes	No
Flexibility	High	Limited by CPU	None
Max SSDs Supported	32	32	8

Based on Linux RAID5 with AMD EPYC 9654 96-Core Processor x 2 and KIOXIA CM7 x 24



SupremeRAID™ SR-1000

[View Linux Release Notes](#)

[View Windows Release Notes](#)



SR-1000
**For 1U
Cloud &
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Servers**

Supports up
to 32 SSDs



SR-1000 Software Specs

Supported RAID levels:

RAID 0, 1, 5, 6, 10

Max Physical Drives: 32

Max Drive Groups:

Linux: 8 / Windows: 4

OS Support:

AlmaLinux 8
CentOS 7 / 8
Debian 11
openSUSE Leap 15
Oracle Linux 7 / 8 / 9
SLES 15
RHEL 7 / 8 / 9
Rocky Linux 8
Ubuntu 20.04 / 22.04
Windows Server 2019 / 2022
Windows 11

**Max Virtual Drives
per Drive Group:**

Linux: 1023 / Windows: 8

Max Drive Group Size:

Defined by physical drive size

Supported NVMe SSDs:

Dapustor, Hagiwara, Kingston
Technologies, KIOXIA, Memblaze,
Micron, Phison, Samsung, Scaleflux,
Seagate, Solidigm, Western Digital

Supported Platforms:

AMD, ARM, Intel

**Supported Virtualization
Environments:**

KVM, Proxmox VE, Virtuozzo
OpenVZ, VMWare Workstation
Pro 17, Windows Server Hyper-V

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

Unprecedented NVMe/NVMeoF performance up to 16M IOPS and 220GB/s throughput with a single SupremeRAID™ card delivers the full value of your server investment



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

“We’re perpetually impressed with the extreme storage performance SupremeRAID™ enables. For maximizing NVMe SSD performance, we haven’t seen anything on the market that can touch the SupremeRAID™ Gen5 solution. It’s fantastic, plus we’re doing the work on an inexpensive NVIDIA A2000 GPU.”

“Gone are the days of IO bottlenecks... SupremeRAID™ is the perfect platform for AI/ML, IoT, video processing, and other performance-hungry applications.”

Cloud & Enterprise Servers

SupremeRAID™ SR-1000



**SR-1000
For 1U
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Enterprise
Servers**

Supports up
to 32 SSDs

	Linux Environment		
	RAID 5	RAID 6	RAID 10
OPTIMAL			
4K Random Read IOPS	16 M IOPS	16 M IOPS	16 M IOPS
4K Random Write IOPS	900 K IOPS	500 K IOPS	8 M IOPS
1M Sequential Read THROUGHPUT	220 GB/s	220 GB/s	220 GB/s
1M Sequential Write THROUGHPUT	90 GB/s	90 GB/s	70 GB/s

	Windows Environment		
	RAID 5	RAID 6	RAID 10
4K Random Read IOPS	2 M IOPS	2 M IOPS	2 M IOPS
4K Random Write IOPS	700 K IOPS	500 K IOPS	1.6 M IOPS
1M Sequential Read THROUGHPUT	70 GB/s	70 GB/s	70 GB/s
1M Sequential Write THROUGHPUT	10 GB/s	10 GB/s	20 GB/s

	Linux Environment		
	RAID 5	RAID 6	RAID 10
REBUILD			
4K Random Read IOPS	3 M IOPS	3 M IOPS	12 M IOPS
4K Random Write IOPS	600 K IOPS	400 K IOPS	8 M IOPS
1M Sequential Read THROUGHPUT	12 GB/s	13 GB/s	110 GB/s
1M Sequential Write THROUGHPUT	11 GB/s	11 GB/s	70 GB/s

	Windows Environment		
	RAID 5	RAID 6	RAID 10
4K Random Read IOPS	1.4 M IOPS	1.4 M IOPS	1.8 M IOPS
4K Random Write IOPS	500 K IOPS	400 K IOPS	1.5 M IOPS
1M Sequential Read THROUGHPUT	12 GB/s	12 GB/s	28 GB/s
1M Sequential Write THROUGHPUT	7 GB/s	7 GB/s	20 GB/s

Linux Testing Specifications: Server: Supermicro AS-2125HS-TNR x1; CPU: AMD EPYC 9654 96-Core Processor x2; Memory: Samsung M321R2GA3BB6-CQKVS DDR5 16GB x24; SSD: Kioxia CM7 KCMY1RUG3T84 x24; RAID Controller: SR-1000 x1; OS: Ubuntu 20.04.4 LTS; Kernel: 5.4.0-155-generic; Benchmarking tool: fio-3.16; SupremeRAID™ Driver version: 1.5.0-rc1-20230804.gcf5e69d8

Windows Testing Specifications: Server: Supermicro SYS-220U-TNR x1; CPU: Intel Xeon Gold 6338 CPU @ 2.00GHz x2; Memory: SK Hynix HMA82GR7CJR8N-XN 16GB DDR4-3200 RDIMM x16; NVMe Drive: Solidigm D7-P5510 x16; RAID Controller: SR-1000 x1; OS: Windows 2022, Driver Version: 1.2.3-185; SupremeRAID™ driver version: 1.2.3; max performance based on a group with 16 physical drives and 2 virtual drives.

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Graid Technology Inc. is headquartered in Silicon Valley, with 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 graidtech.com.

Learn More: info@graidtech.com

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SupremeRAID™ SR-1001

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SR-1001
**For 1U
Towers
& Edge
Servers**

Supports up to 8 NVMe SSDs

Protecting NVMe-based Data From The Cloud To The Desktop: SupremeRAID™ SR-1001 is a PCIe Gen 3 card that supports up to 8 NVMe SSDs, and delivers superior performance and flexibility for tower and edge servers, professional workstations, and gaming desktops. SupremeRAID™ SR-1001 is the perfect storage choice for engineers, videographers, telcos, CSPs, and MSPs. Its powerful performance capabilities are well suited for applications such as CAD, video editing, IoT, and gaming.

6M
IOPS

80GB/s
Throughput

UP TO **100%**
SSD Performance

80%
Cost Savings

1.5x
Faster

	SupremeRAID™ SR-1001	Software RAID	Hardware RAID
4K Random Read	6 M IOPS	~2 M IOPS	3.9 M IOPS
4K Random Write	500 K IOPS	200 K IOPS	180 K IOPS
1M Sequential Read	80 GB/s	~9 GB/s	13.5 GB/s
1M Sequential Write	30 GB/s	2 GB/s	4 GB/s
4K Random Read (Rebuild)	1 M IOPS	Unknown	36 K IOPS
4K Random Write (Rebuild)	350 K IOPS	Unknown	18 K IOPS
CPU Utilization	None	High	None
Data Protection	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 10	RAID 0, 1, 5, 6
NVMeoF Support	Yes	Yes	No
Flexibility	High	Limited by CPU	None
Max SSDs Supported	8	32	8

Based on Linux RAID5 with AMD EPYC 9654 96-Core Processor x 2 and KIOXIA CM7 x 8



Tower & Edge Servers, Professional Workstations, & Gaming Desktops

SupremeRAID™ SR-1001

[View Linux Release Notes](#)

[View Windows Release Notes](#)

SR-1001
**For 1U
Towers
& Edge
Servers**

Supports up to 8 NVMe SSDs



SR-1001 Software Specs

Supported RAID levels:

RAID 0, 1, 5, 6, 10

Max Physical Drives:

32 (8 NVMe drives and up to 24 SAS/SATA Drives)

Max Drive Groups:

Linux: 8 / Windows: 4

OS Support:

AlmaLinux 8
CentOS 7 / 8
Debian 11
openSUSE Leap 15
Oracle Linux 7 / 8 / 9
SLES 15
RHEL 7 / 8 / 9
Rocky Linux 8
Ubuntu 20.04 / 22.04
Windows Server 2019 / 2022
Windows 11

Max Virtual Drives per Drive Group:

Linux: 1023 / Windows: 8

Max Drive Group Size:

Defined by physical drive size

Supported NVMe SSDs:

Dapustor, Hagiwara, Kingston Technologies, KIOXIA, Memblaze, Micron, Phison, Samsung, Scaleflux, Seagate, Solidigm, Western Digital

Supported Platforms:

AMD, ARM, Intel

Supported Virtualization Environments:

KVM, Proxmox VE, Virtuozzo OpenVZ, VMWare Workstation Pro 17, Windows Server Hyper-V

SR-1001 Card Specs

Host Interface:

x16 PCIe Gen 3.0

Max Power Consumption:

30 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

Unprecedented NVMe/NVMeoF performance up to 6M IOPS and 80GB/s throughput with a single SupremeRAID™ card delivers the full value of your server investment



Highly Scalable

Easily manage 8 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

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Tower & Edge Servers, Professional Workstations, & Gaming Desktops

SupremeRAID™ SR-1001

SR-1001
For 1U
Towers
& Edge
Servers

Supports up
to 8 NVMe
SSDs



OPTIMAL

4K Random Read
IOPS

4K Random Write
IOPS

1M Sequential Read
THROUGHPUT

1M Sequential Write
THROUGHPUT

Linux Environment

	RAID 5	RAID 6	RAID 10
4K Random Read IOPS	6 M IOPS	6 M IOPS	6 M IOPS
4K Random Write IOPS	500 K IOPS	400 K IOPS	3 M IOPS
1M Sequential Read THROUGHPUT	80 GB/s	80 GB/s	80 GB/s
1M Sequential Write THROUGHPUT	30 GB/s	30 GB/s	25 GB/s

Windows Environment

	RAID 5	RAID 6	RAID 10
4K Random Read IOPS	1.8 M IOPS	1.8 M IOPS	1.8 M IOPS
4K Random Write IOPS	500 K IOPS	400 K IOPS	1.6 M IOPS
1M Sequential Read THROUGHPUT	40 GB/s	40 GB/s	40 GB/s
1M Sequential Write THROUGHPUT	8 GB/s	7 GB/s	10 GB/s

REBUILD

4K Random Read
IOPS

4K Random Write
IOPS

1M Sequential Read
THROUGHPUT

1M Sequential Write
THROUGHPUT

Linux Environment

	RAID 5	RAID 6	RAID 10
4K Random Read IOPS	1 M IOPS	1 M IOPS	4 M IOPS
4K Random Write IOPS	350 K IOPS	300 K IOPS	3 M IOPS
1M Sequential Read THROUGHPUT	10 GB/s	10 GB/s	40 GB/s
1M Sequential Write THROUGHPUT	10 GB/s	10 GB/s	25 GB/s

Windows Environment

	RAID 5	RAID 6	RAID 10
4K Random Read IOPS	1.4 M IOPS	1.4 M IOPS	1.6 M IOPS
4K Random Write IOPS	400 K IOPS	300 K IOPS	1.5 M IOPS
1M Sequential Read THROUGHPUT	10 GB/s	10 GB/s	26 GB/s
1M Sequential Write THROUGHPUT	7 GB/s	7 GB/s	10 GB/s

Linux Testing Specifications: Server: Supermicro AS-2125HS-TNR x1; CPU: AMD EPYC 9654 96-Core Processor x2; Memory: Samsung M321R2GA3BB6-CQKVS DDR5 4800 MT/s 16GB x24; NVMe SSD: KIOXIA CM7-R 3.84T KCMY1RUG3T84 x8; RAID Controller: SR-1001 x1; Linux Distro: Ubuntu 22.04.1 LTS; Kernel: 5.15.0-83-generic; Benchmarking tool: fio-3.16; SupremeRAID™ Driver version: 1.5.0-670.g03a5380c.001gcf5e69d8

Windows Testing Specifications: Server: Supermicro SYS-220U-TNR x1; CPU: Intel Xeon Gold 6338 CPU @ 2.00GHz x2; Memory: SK Hynix HMA82GR7CJR8N-XN 16GB DDR4-3200 RDIMM x16; NVMe Drive: Solidigm D7-P5510 x8; RAID Controller: SR-1001 x1; OS: Windows 2022, Driver Version: 1.2.3-185; SupremeRAID™ driver version: 1.2.3; max performance based on a drive group with 8 physical drives and 2 virtual drives

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Learn More: info@graidtech.com

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 Graid Technology Inc.

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