OInfortrend



EonStor GS U.2 NVMe Hybrid Flash Storage

Scale-out Unified Storage with High Availability for Enterprises

Highlights

Extreme Performance

- Up to 1.3M end-to-end IOPS to accelerate storage operations
- Massive sequential throughput of up to 50GB/s

Cost-Effective Storage

- U.2 NVMe SSD to deliver better performance at lower costs
- QLC SSD support for higher capacity at reduced costs
- Automated storage tiering to fully utilize SSD and HDD

Flexible Scalability

 Scale-out and scale-up expansions to easily expand performance and capacity to more than 70PB

Easy to Use and Manage

- Single namespace for easier data access
- Auto-balancing to reduce the burden of storage management for IT staff

Nondisruptive Operations

 HA service ensures non-stop operations with a near-zero RTO (recovery time objective) by deploying two storage devices to provide services from two separate sites.

Introduction

EonStor GS U.2 NVMe hybrid flash storage is a high performance storage solution for enterprises. Equipped with U.2 NVMe SSD, it provides higher IOPS and throughput and is more cost-effective. GS U.2 is a unified storage that supports both SAN and NAS services. With block-level and file-level scale-out support, it can linearly increase performance and capacity. Complete data protection allows IT staff to focus on higher value projects. It is a perfect fit for such applications as AI, HPC, M&E, virtualization, and database.

End-to-End High Performance with U.2 NVMe SSD

The most high-end model, GS 5000U, features 200GbE connectivity with RDMA and NVMe over Fabrics (NVMe-oF), achieving up to 50GB/s read throughput and 1.3M IOPS on a single appliance.

Cost-Effectiveness and High Storage Efficiency

U.2 NVMe SSD is becoming mainstream in the market as it combines the advantages of SAS and SATA SSDs, allowing enterprises to enjoy higher performance at a competitive price.

With significant improvement in performance and durability in recent years, quad-level cell (QLC) SSDs have become a compelling option for applications requiring high capacity and flash-level performance. QLC SSDs offer 33% more storage capacity per cell compared to triple-level cell (TLC) SSDs, all while costing less. EonStor GS U.2 NVMe storage supports QLC SSDs to provide greater flexibility, catering to a wide range of enterprise applications and requirements.

EonStor GS U.2 NVMe storage supports hybrid storage, and with automated storage tiering, the storage system can automatically leverage the high throughput and low latency of U.2 NVMe SSDs for frequently accessed data, while using HDDs on expansion enclosures as data backup media, thereby boosting system performance at a reduced total cost of ownership.

The storage solution also comes with data compression and offline deduplication, which reduces the storage capacity required and thus saves storage costs. The compression feature greatly reduces the data size and the transfer time. To deal with repeated files saved by manual backups or archiving, offline deduplication helps you automatically remove duplicate data from an appliance or a cluster to free up storage space.

Flexible Scalability with Scale-out and Scale-up

Through scale-out expansion, you can linearly increase performance and capacity for both block-level and file-level environments. When one storage appliance is no longer able to provide enough performance or capacity, you can simply add more appliances to form a cluster—with a maximum of 4 appliances.

Through scale-up expansion, each storage appliance can be connected to JBOD expansion enclosures to add up to 896 drives. Together with scale-out expansion, EonStor GS U.2 NVMe storage supports more than 3000 drives in total.

Easy Data Access for Users and Simple IT Management

Users can access shared folders in a single root directory under a single namespace, without having to worry about where the data is stored. Auto-balancing is also supported to achieve load balancing, which relieves the burden of manual planning and configuration for IT personnel.

Smart Management of SSD

EonStor GS U.2 NVMe storage uses an intelligent algorithm to handle data writes and optimize SSD usage. The algorithm not only extends SSD lifespan by reducing the total amount of writes on an SSD but also prevents multiple SSDs from failing at the time and causing data loss. Moreover, as EonStor GS U.2 NVMe storage monitors SSD status in real time, it estimates the remaining lifespan of each SSD and sends the administrator a reminder to replace the SSD that is about to fail.

Complete Data Protection and Backup

EonStor GS U.2 NVMe offers various data protection mechanisms to guarantee data safety. First, Infortrend's unique RAID technology ensures your data remains intact even in case of a drive failure. With snapshot, a flexible backup tool, you can back up local resources on a storage system by schedule, including volumes and shared folders, and roll back to a previous version when needed. For further protection, you can back up data to a remote GS appliance using the remote replication feature, or to a public cloud with EonCloud Gateway.

Immutable object storage, another crucial feature for data protection, safeguards data against ransomware attacks. It retains data with WORM (write once read many) storage protection, where data gets "locked" and therefore cannot be modified, deleted, overwritten, or even encrypted by ransomware. By setting a retention period, you can easily follow government compliance requirements or company policies on data retention.

For companies requiring an easy-to-use and reliable storage solution for file backup, EonStor GS U.2 NVMe storage can be utilized as a backup appliance, allowing you to leverage its backup server function to back up data from PC, file servers, and public cloud through a GUI interface. Additionally, you can set options such as a backup schedule and a retention period to best fit your needs.

New Level of High Availability

From power supplies, cooling fans, controllers, to host boards, the modular design of all these hardware components lowers maintenance complexity and provides fast, precise technical support and RMA services, keeping EonStor GS U.2 NVMe storage safe from any downtime to maintain nonstop services, increase productivity, and enhance competitiveness.

In addition, EonStor GS U.2 NVMe storage offers HA service to deliver continuous availability with a near-zero RTO (recovery time objective) and a zero RPO (recovery point objective). With two storage devices deployed at near sites, the HA service provides block-level active-active storage and file-level active-passive storage for business-critical applications that have an extremely low tolerance for downtime. Featuring synchronous remote replication and auto-failover, this solution ensures identical and complete copies of data are stored on both storage devices and avoids service downtime due to planned or unexpected events. Auto-failback is available in block-level HA service, allowing a storage device to resume services without switching manually.

Intuitive Management Software

GS U.2 NVMe storage adopts EonOne, a web-based management software tool, to assist customers in raising storage and service efficiency for increased productivity. With its intuitive interface design, IT administrators can easily manage a cluster and multiple appliances, monitor performance and capacity usage, and complete system configurations, all from one centralized interface.

			GS 2000U	GS 3000U	GS 3000UT	GS 4000U	GS 5000U		
	2U 24-bay		GS 2024 UR	GS 3024 UR	GS 3024 URT	GS 4024 UR	GS 5024 URE		
Form Factor	4U 48-bay		-	-	GS 3048 URT	GS 4048 UR			
			Note: U: NVMe storage	R: Dual redundant contr	ollers T : High performan	ice	1		
Controller			Dual redundant						
Cache Backup Te	Technology			Su	per capacitor + flash mod	ule			
CPU			Intel [®] Xeon [®] D 2-Core	Intel [®] Xeon [®] D 4-Core	Intel [®] Xeon [®] D 4-Core	Intel [®] Xeon [®] D 6-Core	Intel [®] Xeon [®] Scalable 12-Core		
Cache Memory			Default DDR4 16	Default DDR5 128GB up to 1024GB					
Supported Drives	S		2.5" U.2 NVMe SSD (must be purchased from Infortrend)						
	Via Expansion En per Appliance	closures,	896						
Max. Drive Number	Via Scale-out with Series of Applianc per Cluster		3584						
Max. SSD Cache	e Pool (Block Level)				4TB				
Onboard 10GbE	Ports (SFP+)		0	4	0	0	0		
			0	0	4	0	0		
Onboard 25GbE	: Ports (SFP28)		Note: All the ports must	be set to the same channe	l type (block-level or file-le	vel).			
Onboard PCIe E	Expansion Ports		GS 3024 URT : 4, GS 4024 UR : 4						
Host Board Slots	S		4	4	4	4	6		
Host Board Options		• 16Gb/s F • 32Gb/s F • 32Gb/s F • 32Gb/s F • 10GbE (\$ • 25GbE (\$	• 25GbE (SFP28) x4 • 100GbE (QSFP28) RDMA • 100GbE (QSFP56)						
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Max. 16Gb/s FC Max. 32Gb/s FC Max. 10GbE Por Max. 25GbE Por Max. 100GbE Po Max. 100GbE Po Max. 200GbE Po Max. 200GbE Po Max. 12Gb/s SA Expansion Enclo Dimensions (With Protrusions) (W 3 Package Dimens	: Ports : Ports : Ports rts (SFP+) rts (SFP28) orts (QSFP28) orts (QSFP56) orts (QSFP56) :S Ports :S Ports :sures thout Chassis Ears ar x H x D) sions (W x H x D) Power Supplies (Redundant and Hot-swappable)	Global EU	• 12Gb/s S	SFP28) x 4 SAS x 2 2 host board delivers a ma commended that you refer 1 uding supported combinati 16 16 12 16 0 0 0 0 8 JB 4024U, JB 3012A, JB 3 JB 4024U, JB 3012A, JB 3 orted only for GS 3024UR x 500 mm 2U 24-bay: 588 x 239 x 7 4U 48-bay: 588 x 423 x 7 2U 24-bay: 500W x 2 (80 4U 48-bay: 1300W x 2 (80 4U 48-bay: 100-240VAC 4U 48-bay: 100-127VAC	100GbE (QSFF 10GbE (QSFF 12Gb/s SAS x ximum throughput of 100C to the latest Host Board an ons and important notes, t 16 16 16 8 20 8 0 0 8 3016A, JB 3024BA, JB 30 f and GS 4024UR. • 2U 24-bay: 449 • 4U 48-bay: 449 • 40 48-bay: 449 • 40 48-bay • 40 48-bay	228) x 1, RDMA 228) x 2, RDMA 2 Sb/s for GS 3000 UT and Q d Memory Guide on our w pefore purchasing any hos 16 16 16 8 16 8 0 0 0 8 25 BA , JB 3060L, JB 3099 x 88 x 530 mm x 176 x 530 mm 5A	RDMA • 200GbE (QSFP56) ; RDMA • 12Gb/s SAS x 2 GS 4000 U models. vebsite for complete st board for your model. 0 24 0 24 6 12 6 12 0 449 x 88 x 830 mm 594 x 235 x 1106 mm 1600W x 2 (80 PLUS Titanium)		

SOFTWARE SPECIFICATIONS

Max. Logical Drive Number		30				
Max. Logical Drive Capacity		512TB				
Stripe Size		16KB, 32KB, 64KB, 128KB, 256KB, 512KB, 1024KB (per logical drive)				
Write Policy		Write-back or write-through (per logical drive)				
Max. Pool S	ize	2РВ				
Max. Pool N	lumber	30				
Max. Volume	e Size	2PB				
Max. Volume	e Number	1024				
Max. Host LUN Mapping Number		4096				
Max. Reserv	ved Tag Number	256 (per Host-LUN connection)				
Max. iSCSI	Initiators	832				
Max. Host C	Connection Number	128 (per FC)				
RAID Option	าร	RAID 0, RAID 1, RAID 3, RAID 5/5F, RAID 6/6F,	RAID 10, RAID 30, RAID 50, RAID 60			
	File Level	CIFS/SMB (version 2.0/3.0), NFS (version 2/3/4)	, AFP (version 3.1.12), FTP/FXP (vsftp 2.3.4), WebDAV (httpd package 2.4.6)			
Supported Protocols	Block Level	FC, iSCSI, SAS				
	Object Level	RESTful API				
	Max. File System Size	2РВ				
	Max. Number of User Accounts	20000				
	Max. Number of User Groups	512				
File Level	Max. Number of Shared Folders	2048 (NFS/CIFS/FTP) 255 (AFP)				
	Max. Number of Rsync Jobs	1024				
	Max. Number of Concurrent Rsync Processes	64				
	Max. Number of Connections	2048 (NFS/CIFS/AFP) 1024 (FTP)				
Management		 Web-based EonOne management software User account management Group management Folder management - folder access control Quota management Folder encryption with AES 	 Integration with Microsoft Active Directory (AD) and Linux LDAP Storage Resource Management to analyze history of resource usage Multi-factor authentication login mechanism File-level QoS (network traffic control) SMI-S standard interface for hypervisor management applications 			
Availability and Reliability		 Immutable object storage Hot-swappable hardware modules Device mapper Antivirus Trunk group 	 Cache safe technology UPS WORM (file level only) SMB Multichannel 			
Efficiency		Inline compression	Offline deduplication			
Notification		• Email	SNMP traps			
Applications		 Anti-virus Backup Server Docker LDAP Server Mail Server Nextcloud 	 Project Server Proxy Server Syslog Server VPN Server Web Server 			
Supported C	Cloud Services	EonCloud Gateway supports integration with the following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc.				
Supported Cloud Services		Note: For complete information about supported cloud providers, please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud				
Supported OS		Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware				
		Note: For supported OS versions, please refer to the Compatibility Guide.				

DATA SERVICES

Thin Provisioning		Block Level	Default	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage s				
		File Level	Optional	Snapshot images per fold	der: 1024			
Local Replication	Snapshot	Block Level	Default	Snapshot images per sou	urce volume: 64	Snapshot images per system: 128		
			Optional	Snapshot images per sou	urce volume: 256	Snapshot images per system: 4096		
	Volume Copy/Mirror		Default	Replication pairs per sou	rce volume: 4	Replication pairs per system: 16		
	volume Cop	Jy/IVIIITOI	Optional	Replication pairs per sou	rce volume: 8	Replication pairs per system: 256		
		File Level	Default	Support Rsync with 128-	bit SSH encryption			
Remote				Replication pairs per sou	rce volume: 8	Replication pairs per system: 64		
Replication		Block Level	Optional	Note: The maximum number of replication pairs per source volume is 8, whether they are remote asynchronous pairs, remote synchronous pairs, or local volume pairs				
Automated	Storage Tierin	g	Optional	Storage tiers per pool: 4				
		File Level	Default	Appliances per cluster: 1				
Scale-out		File Level	Optional	Appliances per cluster: 4				
		Block Level	Default	Appliances per cluster: 4				
HA Service		File Level	Optional	Delivering continuous availability and eliminating downtime for mission-critical workloads that require non-stop operations				
		Block Level	opuonai	Note: HA Service is not available on GS 2000U.				
		File Level	Optional	Accelerating file operations and data access performance for both read and write Max. SSD number: 8				
				Accelerating data access in random read-intensive environments (e.g. OLTP) Max. SSD number: 4				
SSD Cache		Block Level	Optional	Recommended DIMM capacity per controller for SSD cache pool				
				DRAM : 8GB	Max SSD cache pool size : 0.5TB			
				DRAM : 16GB	Max SSD cache pool size : 1TB			
				DRAM : 32GB	Max SSD cache pool size : 2TB			
				DRAM : 64GB and up	34GB and up Max SSD cache pool size : 4TB			

WARRANTY AND SERVICE

	Standard Service	3-year limited hardware warranty and 8 x 5 phone, web, and email support (batteries are covered under warranty for 2 years)		
Service and Support	Upgrade or Extension Options	 Warranty extension: Standard service can be extended up to 5 years. The following services can be upgraded to 5 years. Upgrade: Replacement part dispatch on the next business day Advanced service: Phone, web, and email support + onsite diagnostics on the next business day Premium service: Phone, web, and email support + onsite diagnostics within 4 hours 		
		Note: Options may vary by region. For more details, please contact our sales representatives.		
	Technical Support	Get information on system installation and maintenance, download technical documents and software, or issue a support ticket		
	Product Services Register products, download firmware, apply for licensing services, create product repair tickets, or check product			

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Tel : +886-2-2226-0126 E-mail : sales.ap@infortrend.com	Tel : +86-10-6310-6168 E-mail : sales.cn@infortrend.com	Tel : +81-3-5730-6551 E-mail : sales.jp@infortrend.com	Tel : +1-408-988-5088 E-mail : sales.us@infortrend.com	E-mail: sales.de@infortrend.com	Visit Our Website

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