OInfortrend



EonStor GSe U.2 NVMe Hybrid Flash Storage

Scale-out Unified Storage for SMB

Highlights

High Performance

- Up to 600K IOPS to accelerate storage operations
- Massive sequential throughput of up to 12GB/s read and 9GB/s write

Cost-Effective Storage

- U.2 NVMe SSD to deliver better performance at lower costs
- Automated storage tiering to fully utilize SSD and HDD

Flexible Scalability

• Scale-out and scale-up expansions to easily expand performance and capacity

Easy to Use and Manage

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

Introduction

EonStor GSe U.2 NVMe hybrid flash storage is a high performance unified storage solution with a single controller designed for SMB. Equipped with U.2 NVMe SSDs, it delivers high IOPS and throughput at a cost-effective price. This series supports both SAN and NAS services, provides block-level and file-level scale-out expansions to linearly increase performance and capacity, and comes with complete enterprise-grade data protection features that allow IT staff to focus on higher value projects. It thus makes a perfect fit for applications such as database, virtualization, M&E, file sharing, and backup.

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

Supporting PCIe 4.0, NVMe U.2 SSD, and 100GbE connectivity with RDMA, GSe U.2 NVMe storage delivers a higher speed with a lower latency, providing up to 12GB/s read and 9GB/s write in throughput and 600K on a single appliance.

Cost-Effectiveness and High Storage Efficiency

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

EonStor GSe 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.

EonStor GSe U.2 NVMe storage also comes with inline compression and offline deduplication, which reduces the storage capacity required and thus saves storage costs. The inline compression feature compresses raw files in real-time, which 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 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 data. 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, GSe U.2 NVMe storage supports more than 3000 drives with over 70PB storage capacity.

Easy Data Access and Simple IT Management

Users can access shared folders in a single root directory under a single namespace, so that they don't need to worry about where the data is placed. Auto-balancing is also supported to achieve the benefit of load balancing without the burden of manual IT planning and configuration.

Smart Management for SSD

EonStor GSe 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. In addition, as EonStor GSe 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.

Essential Applications Designed for SMBs

EonStor GSe U.2 NVMe storage also comes with essential office applications for small and medium-sized businesses, such as email servers and office document software. Setting up and activating these applications can be completed with just a few clicks, even by those without a technical background. This greatly simplifies the tedious process of installing and configuring office-related software, thus saving time.

Complete Data Protection and Backup

EonStor GSe U.2 NVMe storage 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 GSe 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 GSe 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 an GUI interface. Additionally, you can set options such as a backup schedule and a retention period to best fit your needs.

Availability and Reliability

EonStor GSe U.2 NVMe storage is equipped with dual power supplies and cooling fans to help ensure high data availability. The Cache Backup Module (CBM) consists of a super capacitor and a flash module to prevent data loss during a power interruption or outage.

In addition, EonStor GSe 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

EonStor GSe 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.

Fam Factor Note: UNVMe storage T. High performance Controller Supple capacitor + flash module (Optional) Event capacitor + flash module (Optional) CPU Intel [®] Xeon [®] D.4-Core	Product Series			GSe 2000U	GSe 3000U	GSe 3000UT	GSe 4000U		
Note: U: NV/Me storage T: High performance Controller Single Controller Intel® Xeon® D.2-Care Intel® Xeon® D.4-Care Intel® Xeon® D.4-C		2U 24-bay		GSe 2024 U	GSe 3024 U	GSe 3024 UT	GSe 4024 U		
Cache Backup Technology Super capacitor + flash module (Optional) CPU Intel [®] Xeon [®] D 2-Core Intel [®] Xeon [®] D 4-Core Intel [®] Xeon [®] D 4-	Form Factor			Note: U: NVMe storage T: High performance					
CPU Intel [®] Xeon [®] D 4-Core Intel [®] Xeon [®] X	Controller				Sir	igle			
Cache Memory Default DDR4 8GB. up to 400 memory Default DDR4 12/GB. up to 192GI Supported Drives 2.5° U.2 NVMe SSD (must be purchased from Infortenci) Note: For the latest compatibility details, refer to our official website for the latest Compatibility Guide. Max. Drive Via Expansion Enclosures, per Appliances, per Cluster 896 896 896 896 8 Max. Drive Via Scale-out with Other Series of Appliances, per Cluster 3584 3585 3585 3585 <t< td=""><td>Cache Backup Te</td><td>chnology</td><td></td><td></td><td>Super capacitor + fla</td><td>sh module (Optional)</td><td></td></t<>	Cache Backup Te	chnology			Super capacitor + fla	sh module (Optional)			
Supported Drives Suppor	CPU			Intel [®] Xeon [®] D 2-Core	Intel [®] Xeon [®] D 4-Core	Intel [®] Xeon [®] D 4-Core	Intel [®] Xeon [®] D 6-Core		
Supported Drives Note: For the latest compatibility details, refer to our official website for the latest Compatibility Guide. Max. Drive Umbor Via Expansion Enclosures, per Appliance 896 896 896 896 896 8 Max. Drive Umbor Via Scale-evolution Other Series of Appliance 3584 3586 3586 3586 3586 3586 3586	Cache Memory			Default DDR4 8	Default DDR4 12	GB, up to 192GB			
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3. It is strongly recommended that you refer to the latest Host Board and Memory Guide on our website for information, including supported combinations and important notes, before purchasing any host board for Max. 16Gb/s FC Ports Max. 16Gb/s FC Ports 8 8 8 8 8 8 8 Max. 10GbE Ports (SFP+) 4 4 4 4 4 4 6 Max. 10GbE Ports (SFP+) 4 4 4 4 6	Host Board Options			• 32Gb/s F • 10GbE (S • 25GbE (S • 25GbE (S • 12Gb/s S • 12Gb/s S	C x 4 SFP+) x 2 SFP28) x 2 SFP28) x 4 AS x 2 Dooard delivers a maximum throu	 10GbE (SFP+) x 2 25GbE (SFP28) x 2 25GbE (SFP28) x 4 100GbE (QSFP28) x 1, RDMA 100GbE (QSFP28) x 2, RDMA 12Gb/s SAS x 2 			
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Init Global 100-240VAC @10-5A				800W x 2 (80 PLUS Titanium)					
		AC Voltage Global		100-240VAC @10-5A					
				100-127VAC @10A, 200-240VAC @5A					
Frequency 50-60 Hz		Frequency		50-60 Hz					

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	2PB				
Max. Pool N	umber	30				
Max. Volume	e Size	2PB				
Max. Volume	e Number	1024				
Max. Host L	UN Mapping Number	4096				
Max. Reserv	ved Tag Number	256 (per Host-LUN connection)				
Max. iSCSI	Initiators	416				
Max. Host C	connection Number	128 (per FC)				
RAID Option	IS	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				
Supported Protocols	Block Level	FC, iSCSI, SAS				
FIOLOCOIS	Object Level	RESTful API				
	Max. File System Size	2PB				
	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)				
File Level	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) 			
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 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.				
		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 Blo		Block Level	Default	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space		
Local Replication	Snapshot	File Level	Optional	Snapshot images per folder: 1024		
		Block Level	Default	Snapshot images per so	urce volume: 64	Snapshot images per system: 128
			Optional	Snapshot images per so	urce volume: 256	Snapshot images per system: 4096
	Volume Copy/Mirror		Default	Replication pairs per sou	rce volume: 4	Replication pairs per system: 16
			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 Tiering	g	Optional	Storage tiers per pool: 4		
Scale-out		File Level	Default	Appliances per cluster: 1		
			Optional	Appliances per cluster: 4		
		Block Level	evel 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 GSe 2000U.		
		File Level	Default	Accelerating file operations and data access performance for both read and write Max. SSD number: 8		
		Block Level	Default	Accelerating data access in random read-intensive environments (e.g. OLTP) Max. SSD number: 4		
SSD Cache				Recommended DIMM capacity per controller for SSD Cache pool		
				DRAM : 8GB Max SSD cache pool size : 0.5TB		ze : 0.5TB
				DRAM : 16GB Max SSD cache pool size : 1TB		
				DRAM : 32GB	Max SSD cache pool siz	ze : 2TB
				DRAM : 64GB and up	M : 64GB and up Max SSD cache pool size : 4TB	

WARRANTY AND SERVICE

Service and Support	Standard Service	3-year limited hardware warranty and 8 x 5 phone, web, and email support (batteries are covered under warranty for 2 years)	
	Upgrade or Extension Options	Warranty extension: Can extended standard service up to 5 years The following Service 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 in 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 repair status	



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