



EonStor GSe Media and Entertainment Series

Shared Media Storage for Video Collaboration



Highlight

High Performance and Scalability

- Supports up to 26 streams of 4K video editing and playback. Holds up to 896 drives with expansion enclosures

Complete Product Line

- GSe is represented with different form factors and levels of performance for all types of media workloads to fit your budget and requirements

Improved Productivity

- Supports DaVinci Resolve, Adobe Premiere, and Final Cut Pro NLE software for easy project collaboration

High Reliability

- Innovative data protection technologies and cableless hardware design

Flexible IO Connections

- Supports diverse network protocols and operating systems to fit in any IT environment

Easy-to-Use

- Easy setup and effortless storage/media management via web-based management software. DaVinci Resolve database integration for enabling real-time post-production collaboration

Introduction

Infotrend offers a comprehensive storage solution for today's Media and Entertainment industry that processes 4K and above ultra-high definition media footages with the industry-leading media editing software – DaVinci Resolve, Adobe Premiere, and Final Cut Pro. The EonStor GSe (GSe) fulfills the need for small workgroups and post-production studios within 10 workstations working collaboratively on a single shared storage. GSe is a single controller unified storage solution with high capacity nearline drives or all-flash configurations exclusively designed for media and entertainment industry. Its hardware design features 3U 16-bay and 4U 24-bay form factors, flexible host board options, and stable, reliable modular design with high expandability for adding more capacity and connectivity ports.

Effortless management with proprietary tools

EonOne - EonOne is a storage management tool that complements well with EonStor GSe. Infotrend offers two kinds of user privileges for different management purposes. The first one is for M&E User Administrator, who is in charge of users' accounts and storage quota management. To help the user administrator easily set up storage and network, EonOne also offers a setup wizard, which will guide users to finish system deployment in 5 minutes and initial environment setup in 30 minutes. The user-friendly interface makes it easy to manage user access credentials and shared folders. Another user privilege is for System Administrator who can do advanced storage configurations, data services settings, and maintenance.

EonView - EonView is a client-based utility for Windows and macOS workstations. Once connected to GSe, the workstations installed with EonView are able to automatically detect the GSe within the network, the assigned shared folders for each editor will be automatically mounted. This step simplifies the complexities of storage system deployment and network settings, and, therefore, allows users to focus on video editing and creation. If any critical events occur, event notifications are sent to all EonView clients so that the problem can be fixed in time to ensure uninterrupted workflow.

DaVinci Resolve Project Server Integration - DaVinci Resolve Database is preinstalled on GSe for collaborative video editing across multiple clients. With centralized database management, EonStor GSe provides not only the backup, restore and upgrade for DaVinci Resolve Database feature, but also RAID protection.

PHYSICAL SPECIFICATIONS

Product Series	GSe 2000T		GSe 3000 Gen2		GSe 4000 Gen2	
Form Factor & Available Models	3U 16-bay	GSe 2016T		GSe 3016 2		GSe 4016 2
	4U 24-bay	-		GSe 3024 2		GSe 4024 2
Note: 1: High performance 2: Gen2						
Controller	Single Controller					
Cache Backup Techniques (optional)	Super capacitor+Flash module					
CPU	Intel® Pentium® 4 Core		Intel® Xeon® 4 Core		Intel® Xeon® 8 Core	
Cache Memory	Default DDR4 8GB Expandable up to 64GB		Default DDR4 8GB Expandable up to 128GB			
	Note: For M&E solution, it is recommended to use memory at least 64GB.					
Supported Drives	2.5" SAS or SATA SSD 2.5" 12Gb/s SAS 10,000 or 15,000 RPM HDD 3.5" 12Gb/s SAS 7,200 RPM HDD 3.5" 6Gb/s SATA 7,200 RPM HDD					
	Note: For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.					
Max. Drives Number	896 (with expansion board)					
Max. SSD Cache Pool	1.6TB		4TB		4TB	
Onboard SAS expansion Ports	2		2		2	
Onboard 1GbE Ports	4		0		0	
Onboard 10GbE Ports (SFP+)	0		4		4	
Max. Host Board Slots	2		2		2	
Max. Expansion Board	1		1		1	
	Note: The expansion board can only be installed in the HB2 slot and has 2 x 12Gb/s SAS ports only connectable with expansion enclosures.					
Host Board Options	16Gb/s FC x 4 32Gb/s FC x 2 1GbE (RJ-45) x 4 10GbE (SFP+) x 2 10GbE (RJ-45) x 2 25GbE (SFP28) x 2 40GbE (QSFP+) x 2 12Gb/s SAS x 2		16Gb/s FC x 4 32Gb/s FC x 2 32Gb/s FC x 4 10GbE (SFP+) x 2 10GbE (RJ-45) x 2 25GbE (SFP28) x 2 40GbE (QSFP+) x 2 12Gb/s SAS x 2			
	Note: 1. Fibre channel supports point-to-point and switch mode. 2. The expansion board can only be installed in the HB2 slot and has 12Gb/s SAS x 2 ports only connectable with expansion enclosures.					
Max. 16Gb/s FC Ports	4		4		4	
Max. 32Gb/s FC Ports	4		4		4	
Max. 1GbE Ports	12		0		0	
Max. 10GbE Ports (RJ-45)	4		4		4	
Max. 10GbE Ports (SFP+)	4		8		8	
Max. 25GbE Ports (SFP28)	4		4		4	
Max. 40GbE Ports (QSFP+)	4		4		4	
Max. 12Gb/s SAS Ports	6		6		6	
Expansion Enclosure (JBOD)	JB 3012A, JB 3016A, JB 3024BA, JB 3025BA, JB 3060L		JB 3012A, JB 3016A, JB 3025BA, JB 3060L			
Dimensions (without chassis ears/ protrusions) (W x H x D)	2U 12-bay: 449 x 88 x 500 mm 2U 24-bay: 449 x 88 x 500 mm 2U 25-bay: 449 x 88 x 500 mm		3U 16-bay: 449 x 130 x 500 mm 4U 24-bay: 449 x 174.4 x 500 mm 4U 60-bay: 447.6 x 176 x 840.9 mm			
Package Dimensions (W x H x D)	2U 12-bay: 780 x 379 x 588 mm 2U 24-bay: 780 x 338 x 588 mm 2U 25-bay: 780 x 340 x 588 mm		3U 16-bay: 780 x 423 x 588 mm 4U 24-bay: 780 x 465 x 588 mm 4U 60-bay: 620 x 460 x 1140 mm			
Power Supply Unit (with fan module)	Power Supplies (Redundant/hot-swappable)	460W x 2 (80 PLUS Bronze)		530W x 2 (80 PLUS Bronze)		
	AC Voltage (with PFC(auto-switching))	100VAC @8A to 240VAC @4A		100VAC @10A to 240VAC @5A		
	Frequency	50-60 Hz		47-63Hz		
Note: Power is also supplied in redundant mode, allowing full operation with half the resources.						
Safety Standard	<ul style="list-style-type: none"> Electromagnetic Compatibility: CE, BSMI, FCC Safety: UL, BSMI, CB 					

SOFTWARE SPECIFICATIONS

Max. Logical Drives Number	32		
Max. Logical Drives Capacity	512TB		
Configurable Stripe Size	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive		
Configurable Writes Policy	Write-Back or Write-Through per logical drive. This policy can be modified.		
Max. Pool Size	2PB		
Max. Pool Number	32		
Max. Volume Size	2PB		
Max. Volume Number (per pool/per system)	1024		
Max. Host LUN Mapping Number	4096		
Max. Reserved Tag Number per Host-LUN Connection	Up to 256		
Max. iSCSI Initiators (per controller)	832		
Max. Host Connection Number (per FC)	128		
RAID Options	RAID 0, RAID 1, RAID 3, RAID 5, RAID 6, RAID 10, RAID 30, RAID 50, RAID 60		
Protocol Support	File Level Protocol	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)	
	Block Level Protocol	FC, iSCSI, SAS	
	Object Level Protocol	RESTful API	
File Level	Max. File System Size	2PB	
	Max. Number of User Accounts	20000	
	Max. Number of User Groups	512	
	Max. Number of Folder Sharing	2048 (NFS/CIFS/FTP) 255 (AFP)	
	Max. Number of Rsync Jobs	1024	
	Max. Number of Rsync Concurrent Processes	64	
	Max. Number of Concurrent Connections (NFS/CIFS/AFP/FTP)	<ul style="list-style-type: none"> • 16 GB memory: 200 • 32 GB memory: 512 • 64 GB memory: 1024 • 128 GB memory: 2048 	
Management	<ul style="list-style-type: none"> • User account management • Group management • Folder management - folder access control • Quota management 	<ul style="list-style-type: none"> • Integration with Microsoft Active Directory (AD) and LDAP • Folder encryption with AES • Web-based EonOne management software • Storage Resource Management to analyze history records of resource usage 	
Availability and Reliability	<ul style="list-style-type: none"> • Hot-swappable hardware modules • Device mapper support • Antivirus • Trunk group support 	<ul style="list-style-type: none"> • Cache Safe technology • UPS • WORM (For file level only) • SMB Multichannel 	
Notification	<ul style="list-style-type: none"> • Email • SNMP traps 		
Applications	<ul style="list-style-type: none"> • File explorer • Proxy server 	<ul style="list-style-type: none"> • Syslog server • VPN server 	<ul style="list-style-type: none"> • LDAP serve • Docker
Cloud Feature	EonCloud Gateway supports the integration with following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc. For complete information about cloud provides support, please refer to EonCloud Gateway webpage		
OS Support	Microsoft Windows Server ,Ret Hat Enterprise Linux, Mac OS X, VMware		
	Note: For OS version support, please refer to the compatibility matrix.		

DATA SERVICE

Self-encrypting Drives	Unique factory encryption secures data plus makes deletion simple and complete
Thin Provisioning (Block-Level)(default included)	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space
Snapshot	Snapshot images per source volume Standard License: 64 / Advanced License: 256
	Snapshot images per pool Standard License: 128 / Advanced License: 4096
Local Replication	Replication pairs per source volume Standard License: 4 / Advanced License: 8
	Replication pairs per system Standard License: 16 / Advanced License: 256
Note: Standard license is included by default and advanced is an optional license	
Remote Replication (Block level)(optional)	Replication pairs per source volume: 8
	Replication pairs per system: 64
Note: 1. The maximum number of replication pair per source volume is up to 8, regardless of remote asynchronous/remote synchronous/local volume pairs. 2. 4 x 16Gb FC and 2/4 x 32Gb FC host boards do not support Remote Replication.	
Remote Replication (File Level)	Support Rsync with 128-bit SSH encryption
Automated Storage Tiering (optional)	2 or 4 storage tiers based on drive types
	SSD supports
	Automated data migration with scheduling options
Block-level SSD Cache (default included)	Accelerating data access for random read-intensive environments, such as OLTP
	Supports up to four SSDs per controller
	Recommended DIMM capacity for SSD Cache pool for GSe 2000T
	DRAM: 8GB Max SSD Cache Pool Size: 400GB
	DRAM: 16GB Max SSD Cache Pool Size: 600GB
	DRAM: 32GB Max SSD Cache Pool Size: 1,000GB
	DRAM: 64GB Max SSD Cache Pool Size: 1,600GB
	Recommended DIMM capacity for SSD Cache pool for GSe 3000/4000 Gen2
	DRAM: 8GB Max SSD Cache Pool Size: 500GB
	DRAM: 16GB Max SSD Cache Pool Size: 1,000GB
	DRAM: 32GB Max SSD Cache Pool Size: 2,000GB
	DRAM: 64GB and up Max SSD Cache Pool Size: 4,000GB
File-level SSD Cache (default included)	Accelerating file operations, and data access performance for both read and write Supports up to eight SSDs per controller

WARRANTY AND SERVICE

Service and Support	Standard Service	3-year limited hardware warranty and 8x5 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 <ul style="list-style-type: none"> • Upgrade: Replacement part dispatch on the next business day • Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business day • Premium service: 24x7 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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