



EonStor GS Media and Entertainment Series

Shared Media Storage for Video Collaboration



Highlight

High Performance and Scalability

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

Complete Product Line

- GS is represented with various 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 Availability

- Innovative data protection technologies and cableless redundant 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 shared media storage solution for today's Media and Entertainment industry that processes 4K and above ultra-high resolution media footages with the industry-leading media editing software – DaVinci Resolve, Adobe Premiere, and Final Cut Pro. The EonStor GS (GS) fulfills the need for small workgroups and post-production studios within 10 workstations working collaboratively on a single shared storage. GS is a high availability M&E solution as it supports dual controller with the active-standby configuration allowing to switch to a redundant controller in case of failover of the active one, which eliminates the system downtime for mission-critical projects. Its hardware design features 3U 16-bay, 4U 24-bay and 4U 60-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 web-based storage management tool that complements well with EonStor GS. 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 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 set up in 30 minutes. Another user privilege is for System Administrator who can do advanced storage configurations, as well as data services settings, and maintenance.

EonView - EonView is a client-based utility for Windows and macOS workstations. Once connected to GS, the workstations installed with EonView are able to automatically detect the GS 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 GS for collaborative video editing across multiple clients. With centralized database management, EonStor GS provides not only the backup, restore and upgrade for DaVinci Resolve Database feature, but also the RAID protection and dual controller redundancy for high availability solution.

PHYSICAL SPECIFICATIONS

Product Series		GS 2000 T	GS 3000 Gen2	GS 4000 Gen2
Form Factor & Available Model	2U 12-bay	GS 2016R/S GS 2016RT/ST	GS 3016R2CF/S2CF	GS 4016R2CF/S2CF
	3U 16-bay	GS 2024R/S GS 2024RT/ST	GS 3024R2CF/S2CF	GS 4024R2CF/S2CF
	4U 60-bay	-	GS 3060R2CLF/G2LF	GS 4060R2CLF/G2LF
Note: G: Non upgradable single controller S: Upgradable single controller R: Redundant controller 2: Gen2 T: High performance C: Super capacitor L: One drawer F: Eoncloud Gateway				
Controller	Redundant or Upgradable single controller		Redundant or Non upgradable single controller or Upgradable single controller	
Cache Backup Techniques	Super Capacitor + Flash module (Only for upgradable single controller and redundant controller models)			
CPU	Intel® Pentium® 2 or 4 core		Intel® Xeon® D 4-Core	Intel® Xeon® D 8-Core
Cache Memory (per system)	Default DDR4 16GB Expandable up to 128GB		Default DDR4 16GB, Expandable up to 512GB	
Note: For M&E solution, it is recommended to use memory at least 64GB per controller				
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	via expansion enclosure, per appliance	896	896	896
	via scale-out with other series of appliances, per cluster	3584	3584	3584
Max. SSD Cache Pool (Block-level)	3.2TB		4TB	4TB
Onboard SAS Expansion Ports	2		4	4
Onboard 1GbE Ports	8		0	0
Onboard 10 GbE Ports (SFP+)	0		8	8
Max. Host Board Slots	4		4	4
Max. Expansion Board	2		2	2
	Note: The expansion board can only be installed in the HB2 slot and has 12Gb/s SAS x 2 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. The two controllers must have identical slot settings. 2. Fibre channel supports point-to-point and switch mode.			
Max. 16Gb/s FC Ports	16		16	16
Max. 32Gb/s FC Ports	8		16	16
Max. 1 GbE Ports	24		0	0
Max. 10GbE Ports (RJ-45)	8		8	8
Max. 10GbE Ports (SFP+)	8		16	16
Max. 25GbE Ports (SFP28)	8		8	8
Max. 40GbE Ports (QSFP+)	8		8	8
Max. 12Gb/s SAS Ports	10		12	12
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)			3U 16-bay: 449 x 130 x 530 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)			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)	GS 3000/4000: 530W x2 (80 PLUS Bronze) GS 3060L/4060L: 1200W x 2 (80 PLUS Platinum)	
	AC Voltage	100VAC @8A to 240VAC @4A	GS 3000/4000: 100VAC @10A to 240VAC @5A GS 3060L/4060L: 200-240VAC @7.08A	
	Frequency	50-60 Hz	GS 3000/4000: 47-63 Hz GS 3060L/4060L: 50-60 Hz	
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	<ul style="list-style-type: none"> • 16 GB memory: 200 • 32 GB memory: 512 • 64 GB memory: 1024 • 128 GB memory: 2048
	FTP	<ul style="list-style-type: none"> • With any memory: 1024
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 • LDAP server • 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 ,Red 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 (optional)	Accelerating data access for random read-intensive environments, such as OLTP	
	Supports up to four SSDs per controller	
	Recommended DIMM capacity per controller for SSD Cache pool for GS 2000	
	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
	Recommended DIMM capacity per controller for SSD Cache pool for GS 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 (optional)	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	<p>Warranty extension: Can extended standard service up to 5 years The following Service can be upgraded to 5 years</p> <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 <p>Note: Options may vary by region. For more details, please contact our sales representatives.</p>
	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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