



# 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 Project Server integration for enabling real-time simultaneous post-production workflow

## Introduction

*Infortrend 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. Infortrend 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 Project Server is preinstalled on GS for real-time collaborative video editing with projects synchronization across multiple clients. With centralized project server management, members of creative group can smoothly edit and manage media content from a shared storage with RAID protection without worrying about failures or power outages of the workstations. To ensure data integrity and protect files from accidental deletion, IT administrator can also backup and restore the video files through EonOne management software.

# 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: <b>T</b> : High performance <b>G</b> : Non upgradable single controller <b>S</b> : Upgradable single controller <b>R</b> : Redundant controller <b>L</b> : One drawer				
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)	896	896	896	
Max. SSD Cache Pool	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 (with PFC(auto-switching))	100VAC @8A to 240VAC @4A	GS 3000/4000: 100VAC @10A to 240VAC @5A GS 3060L/4060L: 100-127VAC @12.47A, 200-240VAC @7.08A	
	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"> <li>Electromagnetic Compatibility : CE, BSMI, FCC</li> <li>Safety : UL, BSMI, CB</li> </ul>			

## SOFTWARE SPECIFICATIONS

Max. Logical Drives Number	32		
Max. Logical Drives Capacity	512 TB		
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"> <li>• 16 GB memory: 200</li> <li>• 32 GB memory: 512</li> <li>• 64 GB memory: 1024</li> <li>• 128 GB memory: 2048</li> </ul>	
Management	<ul style="list-style-type: none"> <li>• User account management</li> <li>• Group management</li> <li>• Folder management - folder access control</li> <li>• Quota management</li> </ul>	<ul style="list-style-type: none"> <li>• Integration with Microsoft Active Directory (AD) and LDAP</li> <li>• Folder encryption with AES</li> <li>• Web-based EonOne management software</li> <li>• Storage Resource Management to analyze history records of resource usage</li> </ul>	
Availability and Reliability	<ul style="list-style-type: none"> <li>• Redundant, hot-swappable hardware modules</li> <li>• Device mapper support</li> <li>• Antivirus</li> <li>• Trunk group support</li> </ul>	<ul style="list-style-type: none"> <li>• Cache Safe technology</li> <li>• UPS</li> <li>• WORM (For file level only)</li> <li>• SMB Multichannel</li> </ul>	
Notification	<ul style="list-style-type: none"> <li>• Email</li> </ul>	<ul style="list-style-type: none"> <li>• SNMP traps</li> </ul>	
Applications	<ul style="list-style-type: none"> <li>• File explorer</li> <li>• Proxy server</li> </ul>	<ul style="list-style-type: none"> <li>• Syslog server</li> <li>• VPN server</li> </ul>	<ul style="list-style-type: none"> <li>• LDAP serve</li> <li>• Docker</li> </ul>
Cloud Feature	<p>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  <a href="https://www.infortrend.com/global/solutions/eoncloud">https://www.infortrend.com/global/solutions/eoncloud</a></p>		
OS Support	<p>Microsoft Windows Server 2019/2016/2012R2/2012/2008R2/2008, Windows 7 SP1, Windows 8.1, Microsoft Windows Hyper-V, Ret Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware, Citrix XenServer, OpenStack Cinder</p> <p>Note: For OS version support, please refer to the compatibility matrix.</p>		

## 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
Local Replication	Snapshot
	Snapshot images per source volume      Standard License: 64 / Advanced License: 256
	Snapshot images per pool                      Standard License: 128 / Advanced License: 4096
	Volume Copy/Mirror
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
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	

## 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"> <li>• Upgrade: Replacement part dispatch on the next business day</li> <li>• Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business day</li> <li>• Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours</li> </ul>
	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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