



# EonStor GS Family

SAN, NAS 및 클라우드를 통합하는  
엔터프라이즈급 유니파이드 스토리지



## 하이라이트

- 하나의 단일 시스템에 SAN, NAS, Cloud 가 통합되어 강력한 스토리지 기능을 경험할 수 있습니다
- Path 장애 시 자동으로 I/O 연결합니다
- 슈퍼 캐퍼시터 및 플래시를 통한 캐시 보호 로 데이터 안정성 보장합니다
- IDR 기능은 리빌드로부터 모든 하드디스크 드라이브를 안전하게 보호합니다
- EonOne 관리 인터페이스는 시스템 관리와 리소스 모니터링을 위한 단일 컨트롤 센터 제공합니다

## 소개

*EonStor GS 시리즈는 강력한 성능, 유연성 및 높은 확장성을 갖춘 고성능 엔터프라이즈 솔루션의 근간을 형성하며 전체 생산성을 효율적으로 향상합니다. GS는 높은 워크로드에서도 대량의 I/O 및 파일 전송을 처리할 수 있으며 특히 SAN, NAS 및 클라우드통합을 채택하는 하이브리드 환경에 적합합니다. 성능, 용량 및 높은 포트 수를 원하는 사용자에게 적합하며 모든 일반 스토리지 요구 사항을 쉽게 만족시킬 수 있으므로 예산에 민감한 애플리케이션에 이상적입니다*

### 대칭형 액티브 - 액티브 컨트롤러

EonStor GS 시리즈는 블록 레벨의 데이터 액세스를 위한 대칭형 액티브 - 액티브 컨트롤러 구성을 지원하여 Path 장애 시 자동으로 I/O 를 재연결하며 페일오버 시간이 거의 발생하지 않습니다 .

이러한 설계는 관리 노력을 최소화하여 운영 효율성을 높일 수 있습니다 . 호스트는같은 LUN 에 두 개의 컨트롤러를 통해 동시에 접근할 수 있습니다 . I/O 는 두 개의 컨트롤러 및 모든 Path 에 동일하게 분배되며 이를 통해 효과적으로 패스 관리에 드는 시간과 비용을 줄일 수 있습니다 . I/O 는 장애시에 남아있는 패스를 통해 자동으로 지속합니다 .

### 무한한 클라우드 스토리지 용량

클라우드 스토리지 솔루션의 주요 혜택 중의 하나를 꼽으라면 무한대로 확장할 수 있다는 것과 필요에 따라 지불 가능한 유연성일 것입니다 . 온 프레미스 캐시 / 백업 스토리지인 EonCloud 게이트웨이는 프라이빗 클라우드 및 퍼블릭 클라우드 솔루션에 대한 광범위한 통합과 캐시 모드 , 계층화 및 백업 모드와 같은 스마트 데이터 서비스를 제공하여 데이터를 자동으로 간소화합니다 . 로컬 스토리지와 클라우드 스토리지 간의 흐름을 유지하며 비용도 절약합니다 .

### 포괄적인 데이터 보호 및 보안

보안상의 위험은 데이터 보호라는 측면에서 어떠한 경우라도 단순 걱정 사항일 수만은 없습니다 . 예기치 않은 디스크 불량 , 자연재해 및 전력 중단 사태 등도 모두 심각한 데이터 손실의 위험을 초래합니다 . EonStor GS 제품군은 지능형 드라이브 복구 (IDR), 스냅샷 , 로컬 복제 , 원격지 복제 , 파일 단위의 Rsync 와 같은 통합형 백업 기능들을 이용하여 이러한 위험 요소들을 최소화합니다 .

# PHYSICAL SPECIFICATIONS

Product Series		GS 1000 Gen2	GS 2000	GS 3000 Gen2	GS 4000 Gen2
Form Factor & Available Model	2U 12-bay	GS 1012R2CF/S2CF	GS 2012R/S GS 2012RT/ST	GS 3012R2CF/S2CF	GS 4012R2CF/S2CF
	2U 24-bay	GS 1024R2CBF/S2CBF	GS 2024RB/SB GS 2024RTB/STB	-	-
	2U 25-bay	-	-	GS 3025R2CBF/S2CBF	GS 4025R2CBF/S2CBF
	3U 16-bay	GS 1016R2CF/S2CF	GS 2016R/S GS 2016RT/ST	GS 3016R2CF/S2CF	GS 4016R2CF/S2CF
	4U 24-bay	GS 1024R2CF/S2CF	GS 2024R/S GS 2024RT/ST	GS 3024R2CF/S2CF	GS 4024R2CF/S2CF
	4U 60-bay	-	-	GS 3060R2CLF/G2LF	GS 4060R2CLF/G2LF
<b>Note: G: Non upgradable single controller S: Upgradable single controller R: Redundant controller L: One drawer B: 2.5" Form factor 2: Gen2 C: Super capacitor F: Gateway</b>					
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® Atom® 4 Core	Intel® Pentium® 2 or 4 core	Intel® Xeon® D 4 Core	Intel® Xeon® D 8 Core	
Cache Memory (per system)	Default DDR3 16GB Expandable up to 32GB	Default DDR4 16GB Expandable up to 128GB	Default DDR4 16GB Expandable up to 512GB		
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  <b>Note: For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.</b>				
Max. Drives Number (via expansion enclosure)	448	896	896	896	
Max. SSD Cache Pool	1TB	3.2TB	4TB	4TB	
Onboard SAS Expansion Ports	2	2	4	4	
Onboard 1GbE Ports	8	8	0	0	
Onboard 10 GbE Ports (SFP+)	0	0	8	8	
Max. Host Board Slots	2	4	4	4	
Max. Expansion Board	0	2	2	2	
	<b>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.</b>				
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	
<b>Note: 1. The two controllers must have identical slot settings. 2. Fibre channel supports point-to-point and switch mode.</b>					
Max. 16Gb/s FC Ports	8	16	16	16	
Max. 32Gb/s FC Ports	4	8	16	16	
Max. 1 GbE Ports	16	24	0	0	
Max. 10GbE Ports (RJ-45)	4	8	8	8	
Max. 10GbE Ports (SFP+)	4	8	16	16	
Max. 25GbE Ports (SFP28)	4	8	8	8	
Max. 40GbE Ports (QSFP+)	4	8	8	8	
Max. 12Gb/s SAS Ports	6	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)	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)	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		
<b>Note: Power is also supplied in redundant mode, allowing full operation with half the resources.</b>					
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 1000 Gen2, 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>
	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
		Note: Options may vary by region. For more details, please contact our sales representatives.

Asia Pacific (Taipei, Taiwan)  
Infotrend Technology, Inc.  
Tel : +886-2-2226-0126  
E-mail : sales.ap@infotrend.com

China (Beijing, China)  
Infotrend Technology, Ltd.  
Tel : +86-10-6310-6168  
E-mail : sales.cn@infotrend.com

Japan (Tokyo, Japan)  
Infotrend Japan, Inc.  
Tel : +81-3-5730-6551  
E-mail : sales.jp@infotrend.com

Americas (Sunnyvale, CA, USA)  
Infotrend Corporation  
Tel : +1-408-988-5088  
E-mail : sales.us@infotrend.com

EMEA (Basingstoke, UK)  
Infotrend Europe Ltd.  
Tel : +44(0)-1256-305-220  
E-mail : sales.eu@infotrend.com

