OInfortrend



EonStor GS Family

Enterprise-Class Unified Storage Integrating SAN, NAS and Cloud

Highlight

- Consolidates SAN, NAS and Cloud in a single system to enjoy powerful storage features
- Automatically reconnected I/O during path failure
- Cache protection with super-capacitor and flash to ensure data safety
- IDR support ensures that all hard drives are healthy to prevent from rebuilding
- EonOne management interface provides a single control center for system management and resources monitoring

Introduction

The EonStor GS series forms the backbone of our high-performance enterprise storage solution with its powerful performance, flexibility, and high expandability helping to efficiently boost overall productivity. GS can handle large amounts of I/O and file transfers even under high workloads and are especially suitable for hybrid environments adopting SAN, NAS, and Cloud integration. It is perfect for those who want performance, capacity, and a high port count, and at the same time, it is ideal for budget-conscious applications as it can easily meet all general storage needs.

Symmetric Active-active Controllers

The EonStor GS Series supports symmetric active-active controller configuration for blocklevel data access to achieve little or no failover time in the event of a path failure.

This design is also able to minimize administrative efforts and boost operation efficiency. Hosts can access the same LUNs simultaneously via both controllers. I/O workloads are more evenly distributed across both controllers and all paths, effectively minimizing costly path management time.

Infinite Storage Capacity on Cloud

The key benefits of cloud storage solutions are their high service durability and the "scale on demand" flexibility allowing to expand storage as your business evolves. As a great on-premises cache/backup storage to cloud storage, EonCloud Gateway features both a wide range integration for both private cloud and public cloud solutions and smart data services such as heterogeneous cache modes, tiering and backup modes to automatically streamline the optimal data flow between local and cloud storage and also save costs.

Comprehensive Data Protection and Security

Security threats are not the only concern when it comes to safeguarding data. Unexpected disk failures, natural disasters, and power outages - all add up to the risk of data loss. EonStor GS series ensures that risk is minimal with its integrated backup functions such as Intelligent Drive Recovery (IDR), snapshot, local replication, remote replication, and file-level rsync.

Product Series		GS 1000 Gen2	GS 2000	GS 3000 Gen2	GS 4000 Gen2		
			GS 2000				
	2U 12-bay	GS 1012 R2CF/S2CF	GS 2012RT/ST GS 2024RB/SB	GS 3012 R2CF/S2CF	GS 4012 R2CF/S2CF		
	2U 24-bay	GS 1024 R2CBF/S2CBF	GS 2024 RB/SB GS 2024 RTB/STB	-	-		
Form Factor & Available Model	2U 25-bay	-	-	GS 3025 R2CBF/S2CBF	GS 4025 R2CBF/S2CBF		
	3U 16-bay	GS 1016 R2CF/S2CF	GS 2016 R/S GS 2016 RT/ST	GS 3016 R2CF/S2CF	GS 4016 R2CF/S2CF		
	4U 24-bay	GS 1024 R2CF/S2CF	GS 2024 R/S GS 2024 RT/ST	GS 3024 R2CF/S2CF	GS 4024 R2CF/S2CF		
	4U 60-bay	-	-	GS 3060 R2CLF/G2LF	GS 4060 R2CLF/G2LF		
		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					
Controller		Redundant or Upgradable single controller		Redundant or Non upgradable single controller or Upgradable single controller			
Cache Backup Techniques		Super capacitor + Flash module					
		Intel [®] Atom [®] 4 Core		ler and redundant controller models)	Intel [®] Xeon [®] D 8 Core		
CPU			Intel				
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					
		Note: For the latest compatibility deta					
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+) Max. Host Board Slots		0	0	8	8		
VIAX. HOST BOARD SIDTS		2	4 2	4	4		
lax. Expansion Board		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		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 Note: 1. The two controllers must have identical slot settings.		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			
lay 16Ch/a EC Darta		2. Fibre channel supports poin	•	16	16		
Max. 16Gb/s FC Ports		8	16 8	16	16		
Max. 32Gb/s FC Ports		4 16	24	16 0	16 0		
Max. 1 GbE Ports		4	8	8	8		
Max. 10GbE Ports (RJ-45)		4	8	16	16		
Max. 10GbE Ports (SFP+) Max. 25GbE Ports (SFP28)		4	8	8	8		
		4	8	8	8		
Max. 40GbE Ports (QSFP+) Max. 12Gb/s SAS Ports		6	10	12	12		
Expansion Enclosure (JBOD)		JB 3012A, JB 3016A, JB 302		JB 3012A, JB 3016A,			
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 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 3U 16-bay: 780 x 423 x 588 mm 2U 24-bay: 780 x 338 x 588 mm 4U 24-bay: 780 x 465 x 588 mm 2U 25-bay: 780 x 340 x 588 mm 4U 60-bay: 620 x 460 x 1140 mm			nm		
	Power Supplies (Redundant/hot- swappable)	460W x 2 (80 PLUS Bronze) G		S 3000/4000: 530W x2 (80 PLUS Bronze) S 3060L/4060L: 1200W x 2 (80 PLUS Platinum)			
Power Supply Unit with fan module)	AC Voltage (with PFC(auto-switching))	100VAC @10A to 240VAC @5A		3000/4000: 100VAC @10A to 240VAC @5A 3060L/4060L: 100-127VAC @12.47A, 200-240VAC @7.08A			
	Frequency	50-60 Hz		3000/4000: 50-60 Hz 3060L/4060L: 47-63 Hz			
		Note: Power is also supplied in redundant mode, allowing full operation with half the resources.					
Safety Standard		Electromagnetic Compatibility : CE, BSMI, FCC Safety : UL, BSMI, CB					

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		2РВ				
Max. Pool Number		32				
Max. Volume Size		2РВ				
Max. Volume Number	(per pool/per system)	1024				
Max. Host LUN Mappi	ng Number	4096				
Max. Reserved Tag Nu	umber 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				
	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)				
Protocol Support	Block Level Protocol	FC, ISCSI, SAS				
	Object Level Protocol	RESTful API				
	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)				
File Level	Max. Number of Rsync Jobs	1024				
	Max. Number of Rsync Concurrent Processes	64				
	Max. Number of Concurrent Connections (NFS/CIFS/AFP/FTP)	 16 GB memory: 200 32 GB memory: 512 64 GB memory: 1024 128 GB memory: 2048 				
Management		User account managemet Group management Folder management - fol Quota management		 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		Redundant, hot-swappat Device mapper support Antivirus Trunk group support	ble hardware modules	Cache Safe technology UPS WORM (For file level only) SMB Multichannel		
Notification		• Email	SNMP traps			
Applications		File explorerProxy server	Syslog serverVPN server	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 https://www.infortrend.com/global/solutions/eoncloud				
OS Support		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				
		Note: For OS version support, please refer to the compatibility matrix.				

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 images per source volume Standard License: 64 / Advanced License: 256			
Local Replication	Snapshot		-		
	Volume Copy/Mirror	Snapshot images per pool	Standard License: 128 / Advanced License: 4096		
		Replication pairs per source volume	Standard License: 4 / Advanced License: 8		
		Replication pairs per system	Standard License: 16 / Advanced License: 256		
			fault and advanced is an optional license		
		Replication pairs per source volume: 8			
Remote Replication (Block level) (optional)		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			
		2 or 4 storage tiers based on drive types			
Automated Storage T	iering (optional)	SSD supports			
		Automated data migration with scheduling options			
		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			
SSD Cache(optional)		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		
	Standard Service	3-year limited hardware warranty and 8x5 phone, web, and email support (batteries are covered under warranty for 2 years)	
Service and Support	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: 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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