



EonStor GSe Pro Family

Rackmount and Desktop SATA Disk Storage



Highlights

Flexibility - Meeting Present and Future Needs of SMBs

- Highly expandable capacity
- Rich I/O host board options
- Future-proof cloud expansion

Reliability - Low-maintenance Solution for SMBs

- Cable-less modular design
- Cache protection
- Intelligent drive recovery

Efficiency - Get the Most from Your Budget

- Built-in SSD cache
- Automated storage tiering
- Offline deduplication and inline compression

Security - Safeguard Data from Ransomware Attacks

- Immutable objective storage, WORM
- Multi-factor authentication

Introduction

EonStor GSe Pro is a single-controller unified storage solution specifically designed for SMBs. Supporting SATA HDD and SSD drives, it integrates SAN and NAS services with Cloud Gateway features to be deployed under a general NAS architecture for file sharing, backup, cloud synchronization, video editing, and surveillance purposes. System management is done on the intuitive, web-based interface EonOne with complete data services. The product line includes both rackmount and desktop enclosures while offering flexible host board options to choose from, allowing you to select a suitable storage device that meets your performance and budget requirements.

Easy File Sharing and Storage Management

The EonStor GSe Pro family supports cross-platform folder sharing over CIFS/SMB, NFS, AFP, and FTP, and assists with daily operations such as backup, synchronization, and more. The management interface EonOne, which serves as a single control center for system management, provides simple, step-by-step storage configurations as well as a variety of applications, including Proxy Server, LDAP Server, Syslog Server, VPN Server, NVR Server, Docker, and Antivirus.

Cloud Integration

By integrating an intelligent cloud gateway engine with the EonStor GSe Pro family, the EonCloud Gateway feature allows the storage system to synchronize file-level or block-level data with a wide range of public and private cloud services, including Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Tencent Cloud, Google Cloud, etc.

Easy Maintenance with Modular and Cable-less Design

To ensure easy maintenance, the GSe Pro family adopts a modular and cable-less design for its power supplies, system fans, controllers, and host boards. You can easily upgrade the system memory or swap the drives with our drawer design, and if any module fails, you can replace it right on the spot.

PHYSICAL SPECIFICATIONS

Desktop Series		GSe Pro 100		GSe Pro 200	
Available Models	5-bay Desktop	GSe Pro 105		GSe Pro 205/205T	
	8-bay Desktop	GSe Pro 108		GSe Pro 208/208T	
		Note: T: High performance			
Controller		Single			
CPU		Intel® Atom® 4 Core		Intel® Pentium® 2-Core (GSe Pro 200) Intel® Pentium® 4-Core (GSe Pro 200T)	
Cache Memory		DDR3 4GB (non-ECC), expandable to 16GB		DDR4 8GB (non-ECC), expandable to 32GB	
Supported Drives		2.5" SATA SSD 3.5" 6Gb/s SATA 7,200 RPM HDD			
Max. Drive Number		5-bay desktop: 37		8-bay desktop: 40	
Max. Block-level SSD Cache Pool		0.6TB		1TB	
Onboard USB Ports		2 x USB 2.0 + 2 x USB 3.0		2 x USB 3.0 + 2 x USB 3.1 Gen2	
Onboard 1GbE Ports (RJ-45)		4		2	
Onboard 10GbE Ports (SFP+)		0		2	
Max. Host Board Slots		1		2	
Max. Expansion Boards (12Gb/s SAS x 2)		1		0	
Host Board Options		1GbE (RJ-45) x 4 12Gb/s SAS x 2		1GbE (RJ-45) x 4	
		Note: FC connectivity supports DAS (Direct-Attached-Storage) connection via FC HBA cards and switched fabric connection.			
Max. 1GbE Ports (RJ-45)		8		10	
Max. 12Gb/s SAS Ports		2		2	
Expansion Enclosure (JBOD)		JB Pro 208			
Dimensions (without Chassis Ears/Protrusions) (W x H x D)		5-bay desktop: 255 x 168 x 254mm		8-bay desktop: 345 x 168 x 254mm	
Package Dimensions (W x H x D)		5-bay desktop: 363 x 269 x 366mm		8-bay desktop: 456 x 269 x 366mm	
Power Supplies		250W			
Power Supply Unit		AC Voltage 100-240VAC @3.5A			
		Frequency 47-63 Hz			
Safety Standard		• Electromagnetic Compatibility: CE, BSMI, FCC • Safety: UL/cUL, BSMI, CB			

Rackmount Series		GSe Pro 1000			GSe Pro 3000	
Form Factor & Available Models	1U 4-bay	GSe Pro 1004 SP / RP	-	-	-	-
	2U 8-bay	-	GSe Pro 1008 SP / RP	GSe Pro 3008 RP	-	-
	2U 12-bay	-	-	-	GSe Pro 3012/3012T	-
	3U 16-bay	-	-	-	-	GSe Pro 3016/3016T
		Note: T: High performance, SP : Single PSU, RP : Redundant PSU				
Controller		Single				
CPU		Intel® Atom® 4 Core		Intel® Pentium® 4 Core	Intel® Xeon® 4 Core (GSe Pro 3012/3016) Intel® Xeon® 6 Core (GSe Pro 3012T/3016T)	
Cache Memory		DDR3 4GB (non-ECC), expandable to 16GB		DDR4 4GB (non-ECC), expandable to 64GB (GSe Pro 3008RP, GSe Pro 3012/3016) DDR4 8GB (non-ECC), expandable to 64GB (GSe Pro 3012T/3016T)		
Supported Drives		• 2.5" SATA SSD • 3.5" 6Gb/s SATA 7,200 RPM HDD				
Max. Drives Number		4	8	448		
Max. SSD Cache Pool		1TB		0.6TB	1.6TB	
Onboard USB Ports		2 x USB 2.0 + 2 x USB 3.0		1 x USB 3.0		
Onboard 1GbE Ports (RJ-45)		4				
Max. Host Board Slots		-		2		
Max. Expansion Boards (12GB/s SAS x 2)		-		1		
Host Board Options		-		• 16Gb FC x 4 • 32Gb FC x 2 • 32Gb FC x 4	• 1GbE (RJ-45) x 4 • 10GbE (SFP+) x 2 • 40GbE (QSFP+) x 2	• 12Gb/s SAS x 2
		Note: For more details, refer to our website for the latest Host Board and Memory Guide.				
Max. 16Gb/s FC Ports		-		8		
Max. 32Gb/s FC Ports		-		8		
Max. 1GbE Ports		-		12		
Max. 10GbE Ports (SFP+)		-		4		
Max. 40GbE Ports (QSFP+)		-		4		
Max. 12Gb/s SAS Ports		-		4		
Expansion Enclosure (JBOD)		-		• JB 3012SA • JB 3016SA • JB 3024SBA • JB 3025SBA • JB 3060GL		
Dimensions (Without Chassis Ears and Protrusions) (W x H x D)		447 x 43.5 x 450mm	449 x 88 x 450mm	449 x 88 x 450 mm	447 x 88 x 500 mm	447 x 130 x 500 mm
Package Dimensions (W x H x D)		590 x 130 x 682mm	590 x 190 x 682mm	590 x 190 x 682 mm	780 x 379 x 588 mm	780 x 423 x 588 mm
Power Supply Unit		Power Supplies (Hot-swappable)			460W x 2 (80 PLUS Bronze, redundant)	
		AC voltage			100VAC @5A to 240VAC @2.5A	
		Frequency			50-60 Hz	
Safety Standard		• Electromagnetic Compatibility: CE, BSMI, FCC • Safety: UL/cUL, BSMI, CB				

SOFTWARE SPECIFICATIONS

Max. Logical Drive Number	30	
Max. Logical Drive Capacity	512TB	
Stripe Size	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive	
Write Policy	Write-Back or write-through per logical drive.	
Max. Pool Size	2PB	
Max. Pool Number	30	
Max. Volume Size	2PB	
Max. Volume Number	1024	
Max. Host LUN Mapping Number	4096	
Max. Reserved Tag Number (per Host-LUN Connection)	256	
Max. iSCSI Initiators (per Controller)	416	
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	
Supported Protocols	File Level	CIFS/SMB (Version 2.0/3.0), NFS (Version 2/3/4), AFP (Version 3.1.12), FTP/FXP (vsftpd 2.3.4), WebDAV (httpd package 2.4.6)
	Block Level	FC, iSCSI, SAS
	Object Level	RESTful API
File Level	Max. File System Size	2PB
	Max. Number of User Accounts	20000
	Max. Number of User Groups	512
	Max. Number of Shared Folder	2048 (NFS/CIFS/FTP) 255 (AFP)
	Max. Number of Rsync Jobs	1024
	Max. Number of Concurrent Rsync Processes	64
	Max. Number of Connections	2048 (NFS/CIFS/AFP) 1024 (FTP)
Management	<ul style="list-style-type: none"> • Multi-factor authentication login mechanism • Web-based EonOne management software • User account management • Group management • Folder management - folder access control 	<ul style="list-style-type: none"> • Quota management • Folder encryption with AES • Integration with Microsoft Active Directory (AD) and Linux LDAP • Storage Resource Management to analyze history of resource usage
Availability and Reliability	<ul style="list-style-type: none"> • Immutable object storage • Hot-swappable hardware modules • Device mapper • Antivirus • Trunk group 	<ul style="list-style-type: none"> • Cache safe technology • UPS • WORM (file level only) • SMB Multichannel
Efficiency (2U 12-bay and 2U 16-bay only)	<ul style="list-style-type: none"> • Inline compression • Offline deduplication 	
Notification	<ul style="list-style-type: none"> • Email • SNMP traps 	
Applications (GSe Pro 3000 only)	<ul style="list-style-type: none"> • Web-based file explorer • Proxy server • Syslog server • VPN server • LDAP server • Docker 	
Supported Cloud Services	<p>EonCloud Gateway supports integration with the following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc.</p> <p>Note: For complete information about cloud provides support, please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud</p>	
Supported OS	<p>Microsoft Windows Server, Red Hat Enterprise Linux, Mac OS X, VMware.</p> <p>Note: For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.</p>	

DATA SERVICES

Thin Provisioning	Block level	Default	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.	
File Snapshot		Optional	Snapshot images per folder: 1024	
Local Replication	Snapshot	Block level	Default	Snapshot images per source volume: 64 Snapshot images per pool: 128
			Optional	Snapshot images per source volume: 256 Snapshot images per pool: 4096
	Volume Copy/Mirror	Default	Replication pairs per source volume: 4 Replication pairs per system: 16	
		Optional	Replication pairs per source volume: 8 Replication pairs per system: 256	
Remote Replication	File level	Default	Rsync with 128-bit SSH encryption	
	Block level	Optional	Replication pairs per source volume: 8 Replication pairs per system: 64	Note: 1. The maximum number of replication pairs per source volume is 8, whether they are remote asynchronous pairs, remote synchronous pairs, or local volume pairs. 2. 16Gb FC x 4, 32Gb FC x 2, and 32Gb FC x 4 host boards do not support Remote Replication.
Automated Storage Tiering		Optional	Storage tiers per pool: 4	
Scale-out (GSe Pro 3000 Only)	File level	Default	Appliances per cluster: 1	
		Optional	Appliances per cluster: 4	
	Block level	Default	Appliances per cluster: 4	
SSD Cache	File-level	Default	Accelerating file operations and data access performance for both read and write	
			Max. SSD number: 8	
	Block-level	Default	Accelerating data access in random read-intensive environments (e.g. OLTP)	
			Max. SSD number: 4	
			Recommended SSD cache pool size by DIMM capacity:	
			DRAM: 8GB	Max SSD Cache Pool Size: 0.4TB
			DRAM: 16GB	Max SSD Cache Pool Size: 0.6TB
			DRAM: 32GB	Max SSD Cache Pool Size: 1TB
DRAM: 64GB	Max SSD Cache Pool Size: 1.6TB			

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: Standard service can be extended 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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