Infortrend®

EonStor GSe Pro Family
Rackmount and Desktop
SATA Disk Storage

Highlights

Easy to Use

- 15 minutes deployment
- Easy to scale and manage
- Essential applications designed for SMBs

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. EonStor GSe Pro can be utilized as a backup appliance, allowing you to leverage its backup service to back up PC folders, file servers, and public cloud through a GUI interface. Additionally, you can set options such as a backup schedule and a retention period to best fit your needs.

The management interface EonOne, which serves as a single control center for system management, provides simple, step-by-step storage configurations.

Essential Applications Designed for SMBs

EonStor GSe Pro includes essential applications for small and medium-sized businesses, such as Proxy Server, LDAP Server, Syslog Server, VPN Server, NVR Server, Docker, Antivirus, email servers, and document management software. Setting up and activating these applications can be completed with just a few clicks, even by those without a technical background. It considerably simplifies the tedious installation and configuration processes for office-related tools, thus saving time.

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

Product Series		GSe Pro 100		GSe Pro 200	
Form Factor	2U 12-bay	GSe Pro 105		GSe Pro 205/205T	
	3U 16-bay	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 200**T**)	
Cache Memory		DDR3 4GB (non-ECC), up to 16GB		DDR4 8GB (non-ECC), up to 32GB	
Supported Drives		• 2.5" SATA SSD • 3.5" 6Gb/s SATA 7,200 RPM HDD			
		Note: For the latest compatibility details, refer to our official website for the latest Compatibility Guide.			
Max. Drive Number		• 5-bay desktop: 37 • 8-bay desktop: 40			
Max. SSD Cache Pool (Block Level)		0.6TB		1TB	
Onboard USB Ports		• USB 2.0 x 2 • USB 3.0 x 2		• USB 3.0 x 2 • USB 3.1 Gen2 x 2	
Onboard 1GbE Ports (RJ45)		4		2	
Onboard 10GbE Ports (SFP+)		0		2	
Max. Host Board Slots		1		2	
Host Board Options		• 1GbE (RJ-45) x 4 • 12Gb/s SAS x 2		• 1GbE (RJ-45) x 4	
		Note: It is strongly recommended that you refer to the latest Host Board and Memory Guide on our website for complete information, including supported combinations and important notes, before purchasing any host board for your model.			
Max. 1GbE Ports (RJ45)		8		10	
Max. 12Gb/s SAS Ports		2		2	
Expansion Enclosures (JBODs)		JB Pro 208			
Dimensions (Without Chassis Ears and Protrusions) (W x H x D)		• 5-bay desktop: 255 x 168 x 254 mm • 8-bay desktop: 345 x 168 x 254 mm			
Package Dimensions (W x H x D)		• 5-bay desktop: 363 x 269 x 366 mm • 8-bay desktop: 456 x 269 x 366 mm			
Power Supply Unit	Power Supplies	250W			
	AC Voltage	100-240VAC @3.5A			
	Frequency	47-63 Hz			
Safety Standards		• Electromagnetic compatibility: CE, BSMI, FCC • Safety: UL, BSMI, CB			

Product Series		GSe Pro 1000			GSe Pro 3000	
Form Factor	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 3012/3012**T**	-
	3U 16-bay	-	-	-	-	GSe Pro 3016/3016**T**
		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), up to 16GB		• DDR4 4GB (non-ECC), up to 64GB (GSe Pro 3008RP, GSe Pro 3012/3016) • DDR4 8GB (non-ECC), up to 64GB (GSe Pro 3012**T**/3016**T**)		
Supported Drives		• 2.5" SATA SSD • 3.5" 6Gb/s SATA 7,200 RPM HDD				
		Note: For the latest compatibility details, refer to our official website for the latest Compatibility Guide.				
Max. Drive Number		4	8	448	448	448
Max. SSD Cache Pool (Block Level)		1TB	1TB	0.6TB	1.6TB	1.6TB
Onboard USB Ports		• USB 2.0 x 2 • USB 3.0 x 2		• USB 3.0 x 1		
Onboard 1GbE Ports (RJ45)		4		4		
Max. Host Board Slots		-		2		
Host Board Options		-		• 16Gb/s FC x 4 • 32Gb/s FC x 4 • 10GbE (SFP+) x 2 • 32Gb/s FC x 2 • 1GbE (RJ-45) x 4 • 12Gb/s SAS x 2		
				Note: It is strongly recommended that you refer to the latest Host Board and Memory Guide on our website for complete information, including supported combinations and important notes, before purchasing any host board for your model.		
Max. 16Gb/s FC Ports		-		8		
Max. 32Gb/s FC Ports		-		8		
Max. 1GbE Ports (RJ45)		-		12		
Max. 10GbE Ports (SFP+)		-		4		
Max. 12Gb/s SAS Ports		-		4		
Expansion Enclosures (JBODs)		-		JB 3012SA, JB 3016SA, JB 3024SBA, JB 3025SBA, JB 3060L		
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)	• **SP** model: 250W x 1 • **RP** model: 250W x 2 (redundant)		460W x 2 (80 PLUS Bronze, redundant)		
	AC Voltage	100-240VAC @5-2.5A		100-240VAC @10-5A		
	Frequency	50-60 Hz				
Safety Standards		• Electromagnetic compatibility: CE, BSMI, FCC • Safety: UL, BSMI, CB				

SOFTWARE SPECIFICATIONS

Max. Logical Drive Number	30	
Max. Logical Drive Capacity	512TB	
Stripe Size	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, 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	256 (per Host-LUN connection)	
Max. iSCSI Initiators	416	
Max. Host Connection Number	128 (per FC)	
RAID Options	RAID 0, RAID 1, RAID 3, RAID 5/5F, RAID 6/6F, 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 (vsftp 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 Folders	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	• Web-based EonOne management software • User account management • Group management • Folder management - folder access control • Quota management	• Folder encryption with AES • Integration with Microsoft Active Directory (AD) and Linux LDAP • Storage Resource Management to analyze history of resource usage • Multi-factor authentication login mechanism • File-level QoS (network traffi c control)Storage Resource
Availability and Reliability	• Immutable object storage • Hot-swappable hardware modules • Device mapper • Antivirus • Trunk group	• Cache safe technology • UPS • WORM (file level only) • SMB Multichannel • Backup Service
Efficiency	• Inline compression	• Offline deduplication
Notification	• Email	• SNMP traps

Applications	M&E	• Project Server		• ResouceSpace	
	Data Backup	• Object Storage			
	File Sharing and Syncing	• Nextcloud			
	Productivity	• Mail Server	• Web Server	• ONLYOFFICE	
	Management	• Proxy Server	• LDAP Server	• Syslog Server	• VPN Server
	Security	• Anti-virus			
	Utility	• File Explorer		• Docker	

Supported Cloud Services	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.
	Note: For complete information about supported cloud providers, please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud

Supported OS	Microsoft Windows Server, Red Hat Enterprise Linux, MacOS X, VMware
	Note: For supported OS versions, please refer to the Compatibility Guide.

DATA SERVICES

Thin Provisioning	Block Level	Default	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.	
Local Replication	Snapshot	File Level	Optional	Snapshot images per folder: 1024	
		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	Support Rsync with 128-bit SSH encryption	
		Block Level	Optional	Replication pairs per source volume: 8	Replication pairs per system: 64
				Note: The maximum number of replication pairs per source volume is 8, whether they are remote asynchronous pairs, remote synchronous pairs, or local volume pairs	
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 DIMM capacity per controller for SSD Cache pool	
				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 8 x 5 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 • Upgrade: Replacement part dispatch on the next business day • Advanced service: 24 x 7 phone, web, and email support + onsite diagnostics on the next business day • Premium service: 24 x 7 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