



EonStor GSe Pro Family

Rackmount and Desktop SATA Disk Storage



Highlight

Flexibility -

Meet the present and future needs of SMB

- Highly Expandable Capacity.
- Rich I/O Host Board Options.
- Future-proof cloud expansion.

Reliability -

Low maintenance solution for SMB

- Redundant hardware design.
- Cable-less modular design.
- Cache protection.
- Intelligent drive recovery

Efficiency -

Built-in SSD Cache feature

Introduction

EonStor GSe Pro is a single controller Unified solution with support for SATA and SSD drives exclusively designed for SMBs, integrating SAN and NAS services as well as Cloud Gateway features to be deployed under a general NAS architecture for file sharing, backup, cloud synchronization, video editing, and surveillance purposes. Its complete product line features a hardware design of rack-mount or desktop enclosures and flexible host boards to choose from; as for software, it comes with complete data services and simple, intuitive management interfaces, so that you can find the perfect storage device according to your performance or budget needs.

Easy File Sharing and Storage Management

The EonStor GSe Pro family supports cross-platform CIFS/SMB, NFS, AFP, FTP folder sharing and assists with daily operations including backup, synchronization and more. EonOne management interface provides a single control center for system management. It integrates storage configurations and controls such as storage provisioning backup as snapshot, and cloud features into simple step-by-step procedures and provides built-in services including Proxy Server, LDAP Server, Syslog Server, VPN Server, NVR servers, Docker and anti-virus.

Cloud Integration

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

Easy maintenance with modular and cableless design

To ensure easy maintenance, the GSe Pro family adopts the modular and cableless 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					
CPU		Intel® Atom® 4 Core		Intel® Pentium® 2 Core (GSe Pro 200)	
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. Drives Number		• 5-bay Desktop: 37 • 8-bay Desktop: 40			
Max. SSD Cache Pool		600GB		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 Board		1			
Note: 1. The expansion board has 12Gb/s SAS x 2 ports only connectable with expansion enclosures 2. For GSe Pro 200, the expansion board can only be installed in the HB2 slot.					
Host Board Options		• 1GbE (RJ-45) x 4 • 10GbE (RJ-45) x 2 • 12Gb/s SAS x 2			
Note: Fiber Channel supports point-to-point and switch mode.					
Max. 1 GbE Ports (RJ-45)		8		10	
Max. 10 GbE Ports (RJ-45)		2		6	
Max. 12Gb/s SAS Ports		2		4	
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 Supply Unit		250W (80 PLUS Bronze)			
AC Voltage (with PFC (Auto-switching))		100VAC @3.5A to 240VAC @3.5A			
Frequency		47-63 Hz			
Safety Standard		• Electromagnetic Compatibility : CE, BSMI, FCC • Safety : UL, BSMI, CB			

Rackmount Series		GSe Pro 1000			GSe Pro 3000	
Form Factor		1U 4-bay	2U 8-bay	2U 8-bay	2U 12-bay	2U 16-bay
Available models		GSe Pro 1004 SP GSe Pro 1004 RP	GSe Pro 1008 SP GSe Pro 1008 RP	GSe Pro 3008 RP	GSe Pro 3012 GSe Pro 3012T	GSe Pro 3016 GSe Pro 3016T
	Note: S: Single, R: Redundant, P: PSU, T: High performance					
Controller		Single controller				
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 3012/3016T)		
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		1.6TB	3.2TB	
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 Board		-		1		
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 FC x 4 • 32Gb FC x 2 • 32Gb FC x 4	• 1GbE (RJ-45) x 4 • 10GbE (RJ-45) x 2 • 10GbE (SFP+) x 2	• 40GbE (QSFP+) x 2 • 12Gb/s SAS x 2
Max. 16Gb/s FC Ports		-		8		
Max. 32Gb/s FC Ports		-		8		
Max. 1 GbE Ports		-		12		
Max. 10GbE Ports (RJ-45)		-		4		
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/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		250W (80 PLUS Bronze)			530W x 2 (80 PLUS Bronze)	
AC Voltage (with PFC (Auto-switching))		100VAC @5A to 240VAC @2.5A			100VAC @10A to 240VAC @5A	
Frequency		50-60 Hz				
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	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"> • 16 GB memory: 200 • 32 GB memory: 512 • 64 GB memory: 1024 • 128 GB memory: 2048 	
Management	<ul style="list-style-type: none"> • User account management • Group management • Folder management - folder access control • Quota management 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Hot-swappable hardware modules • Device mapper support • Antivirus • Trunk group support 	<ul style="list-style-type: none"> • Cache Safe technology • UPS • WORM (For file level only) • SMB Multichannel 	
Notification	<ul style="list-style-type: none"> • Email • SNMP traps 		
Applications	<ul style="list-style-type: none"> • File explorer • Proxy server 	<ul style="list-style-type: none"> • Syslog server • VPN server 	<ul style="list-style-type: none"> • 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		
OS Support	Microsoft Windows Server ,Ret Hat Enterprise Linux, Mac OS X, VMware		
	Note: For OS version support, please refer to the compatibility matrix.		

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(Default Included)	Accelerating data access for random read-intensive environments, such as OLTP	
	Supports up to four SSDs per controller	
	Recommended DIMM capacity for SSD Cache pool:	
	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
DRAM:64GB	Max SSD Cache Pool Size: 1,600GB	

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"> • 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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