EonStor GSe Pro Desktop Series

Unified Storage for Workgroup/SMB

- Multiple operating systems file sharing
- Integrating SAN, NAS, and Cloud in one system
- Featuring quad-core processor and dual 10GbE SFP+ ports

For more details

HIGHLIGHTS

- Features a whisper-quiet compact design that fits in any office space

- Unified Storage that combines SAN, NAS, and Cloud in one system

- Hybrid Drive technology that supports both SSD and HDD

- High performance with multi-core CPU, high-speed 10 GbE port, and up to 32 GB RAM support

- High expandability with diverse host options and connections of up to 40 drives via expansion enclosures

- Easy storage management and complete data services

- Future-proof cloud expansion with optional cloud gateway

- 3 years limited warranty

Designed and suitable for small offices, EonStor GSe Pro Desktop Series (GSe Pro 100 & 200) features a whisper-quiet compact design and packed with high-end Enterprise features. Its hardware is comprised of powerful multi-core processors and high-speed Ethernet ports to that deliver optimum performance, and Hybrid Drive technology that supports both SSD and HDD. Users can easily configure and manage data services such as SSD cache via a centralized and user-friendly management tool. With NAS, SAN, and Cloud integrated in one Unified Storage, GSe Pro Desktop Series allows SMBs and SMEs to run applications whether from data storage, file sharing, or cloud storage in both file and block-levels. GSe Pro Desktop Series also offers 3-years of limited warranty.

Easy File Sharing and Storage Management

GSe Pro Desktop Series supports cross-platform CIFS, SMB, NFS, AFP, and FTP folder sharing for an easier and speedier file access. Day-to-day operations such file storage, backup, sharing, synchronization, and more are achievable. Also, storage management is hassle-free via EonOne, a user-friendly management tool. Setup wizard makes storage configurations like storage provisioning, Snapshot, scheduled backup, and cloud integration more intuitive. Built-in applications such as Proxy, LDAP, Syslog, VPN, and NVR servers offer versatile deployments for SMBs.
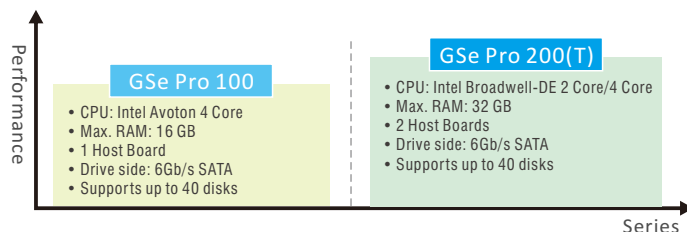
High Expandability and Performance

GSe Pro Desktop Series offers expandable connectivity options, including 1 GbE RJ-45,10 GbE RJ-45, 10 Gb SFP+, 8 Gb FC and 16 Gb FC. Users can also expand the capacity up to 40 drives via an expansion enclosure with high-speed 12 Gb/s SAS interface. With the high performance multi-core CPU, EonStor GSe Pro Desktop Series can meet IOPS/throughput demanding applications such as virtualization, database, video editing, backup, and email servers.

Future-Proof Cloud Expansion

The optional EonCloud Gateway connects the GSe Pro Desktop Series to major cloud storage services such as Amazon S3, Microsoft Azure, OpenStack Swift, and Alibaba Cloud. For example, you can set up Cloud Backup to ensure your data is well-protected, or enable Cloud Cache to speed up cloud file access.

GSe Pro (Desktop Series) Portfolio

Performance / Series

GSe Pro 100
- CPU: Intel Avoton 4 Core
- Max. RAM: 16 GB
- 1 Host Board
- Drive side: 6Gb/s SATA
- Supports up to 40 disks

GSe Pro 200(T)
- CPU: Intel Broadwell-DE 2 Core/4 Core
- Max. RAM: 32 GB
- 2 Host Boards
- Drive side: 6Gb/s SATA
- Supports up to 40 disks

EonStor GSe Pro Desktop Series

Specifications (per system)		GSe Pro 100	GSe Pro 200 GSe Pro 200T[*1]
Form factor	5-bay desktop	v	v
	8-bay desktop	v	v
Controller		Single	Single
Max drives		40	40
Max SSD cache pool		400GB	800GB
Power supply unit	Power supplies	250W (80 PLUS Bronze)	250W (80 PLUS Bronze)
	AC voltage (with PFC (auto-switching))	100VAC @ 3.5A to 240VAC @ 3.5A	100VAC @ 3.5A to 240VAC @ 3.5A
	Frequency	47-63 Hz	47-63 Hz
CPU		1 x Intel Avoton (Atom) 4 Core 2.40GHz	1 x Intel Broadwell-DE (Pentium) GSe Pro 200/200T: 2 Core 2.20 GHz / 4 Core 1.60 GHz
Cache memory		DDR3 4GB (non-ECC) Expandable to 8/16 GB	DDR4 8GB (non-ECC) Expandable to 16/32 GB
Memory slot		2	2
Driver side		SATA 6G	SATA 6G
Max. number of host board		1	2
Expansion board		1	1
		Note: 1. The expansion board has 2 x 12Gb/s SAS ports only connectable with expansion enclosures. 2. For GSe Pro 200, the expansion board can only be installed in the HB2 slot.	
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 iSCSI ports (10Gb SFP+)		0	2
Onboard iSCSI ports (1Gb RJ-45)		4	2
Host board ports		4 x 1Gb/s iSCSI ports 2 x 10Gb/s iSCSI ports (RJ-45) Converged host board: – 4 x 8Gb/s FC ports – 2 x 16Gb/s FC ports – 4 x 10Gb/s iSCSI ports (SFP+)	4 x 1Gb/s iSCSI ports 2 x 10Gb/s iSCSI ports (RJ-45) Converged host board: – 4 x 8Gb/s FC ports – 2 x 16Gb/s FC ports – 4 x 10Gb/s FCoE ports – 4 x 10Gb/s iSCSI ports (SFP+)
		Note: Fibre channel supports point-to-point and switch mode.	
Max. number of logical drives		32	
Max. logical drive capacity		512TB	
Configurable stripe size		16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive	
Configurable write policy		Write-Back or Write-Through per logical drive. This policy can be modified.	
Max. size of pool		2PB	
Max. number of pools		32	
Max. number of volumes (per pool/ per system)		1024	
Max. number of LUNs mappable		4000	
Max. volume size		2PB	
Number of tags reserved for each Host-LUN connection		Up to 256	
Max iSCSI Initiators (per controller)		416	
Maximum host connection (per FC)		128	
File Level	Max. file system size	2PB	
	Max. number of user accounts	20000	
	Max. number of user groups	512	
	Max. number of folder sharing	1024 (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)	• 16 GB memory: 200 • 32 GB memory: 512	
RAID options		RAID 0, 1, (1+0), 3, 5, 6, 10, 30, 50, 60	
Protocol support	File Level Protocol Block Level Protocol Object Level Protocol	CIFS/SMB (Version 2.0/3.0), NFS (Version 2/3/4), AFP (Version 2.2.2), FTP/FXP (vsftp 2.3.4), WebDAV (httpd package 2.4.6) FC, FCoE, iSCSI, InfiniBand, SAS RESTful API	
EonCloud Gateway		Support the integration with following cloud providers: Amazon S3, Microsoft Azure, Alibaba AliCloud, OpenStack	
Green design		• 80 PLUS power supplies delivering more than 80% energy efficiency • Intelligent multi-level drive spin-down	
Regulatory		• Electromagnetic Compatibility : CE, BSMI, FCC • Safety : UL, BSMI, CB	• Electromagnetic Compatibility : CE, BSMI, FCC • Safety : UL, BSMI, CB, EAC

1. Model name "T" means high performance

GSe Pro 100

Form Factor	**5-bay desktop**	**8-bay desktop**
Available Models	GSe Pro 105	GSe Pro 108
Supported drives	2.5" SATA SSD 3.5" SATA HDD	2.5" SATA SSD 3.5" SATA HDD
	Note: For the latest compatibility details, refer to our official website for the latest EonStor GSe Pro Compatibility Matrix.	
Max. drives number	37	40
Dimensions (Without chassis ears/ protrusions)	255mm (W) x 168mm (H) x 254mm (D)	345mm (W) x 168mm(H) x 254mm (D)
	Note: Default depth is 254mm, and 259mm with host board.	
Package Dimensions	363mm (W) x 269mm (H) x 366mm (D)	456mm (W) x 269mm (H)x 366mm (D)
Expansion enclosure (JBOD)	JB 208	

GSe Pro 200

Form Factor	**5-bay desktop**	**8-bay desktop**
Available Models	GSe Pro 205 GSe Pro 205T	GSe Pro 208 GSe Pro 208T
	Note: **T**: High performance	
Supported drives	2.5" SATA SSD 3.5" SATA HDD	2.5" SATA SSD 3.5" SATA HDD
	Note: For the latest compatibility details, refer to our official website for the latest EonStor GSe Pro Compatibility Matrix.	
Max. drives number	37	40
Dimensions (Without chassis ears/ protrusions)	255mm (W) x 168mm (H) x 254mm (D)	345mm (W) x 168mm(H) x 254mm (D)
	Note: Default depth is 254mm, and 259mm with host board.	
Package Dimensions	363mm (W) x 269mm (H) x 366mm (D)	456mm (W) x 269mm (H)x 366mm (D)
Expansion enclosure (JBOD)	JB 208	

PHYSICAL SPECIFICATIONS

Expansion Units

JB Pro 208

Form Factor	8-bay desktop			
Power supplies	250W (80 PLUS Bronze)			
Host connectivity	2 x 12GB/s SAS			
Drive connectivity	12GB/s SAS			
Corresponding models	GSe Pro 105 GSe Pro 108	GSe Pro 205 GSe Pro 205T	GSe Pro 208 GSe Pro 208T	

Service / support	Standard service	3-year limited hardware warranty and 8x5 phone, web, and email support (Batteries are covered under warranty for 2 years)
	Upgrade/Extension service (optional)	**Warranty extension:** Can extended standard service up to 5 years **Service upgrade:** Replacement part dispatch on the next business day (Can be upgraded to 5 years) • **Advanced service:** 24x7 phone, web, and email support + onsite diagnostics on the next business day(Can be upgraded to 5 years) • **Premium service:** 24x7 phone, web, and email support + onsite diagnostics in 4 hours (Can be upgraded to 5 years) **Note:** Options may vary by region. For more details, please contact our sales representatives.
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EonStor GSe Pro Desktop Series

Data Service

Self-encrypting drives	Unique factory encryption secures data plus makes deletion simple and complete		
Thin Provisioning	"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 system	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: The maximum number of replication pair per source volume is up to 8, regardless of remote asynchronous/remote synchronous/local volume pairs		
Remote Replication(File Level)	Support Rsync with 128-bit SSH encryption		
Automated Storage Tiering (optional)	Two(2) storage tiers based on drive types SSD supports		

SSD Cache	• 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: 300GB
	  DRAM:16GB Max SSD Cache Pool Size: 400GB
	  DRAM:32GB Max SSD Cache Pool Size: 800GB		

EonCloud Gateway	**File - level** Cache Mode：A copy of frequently accessed file is kept on a local storage and all files are also uploaded to cloud Sync Mode：Synchronizing files between local storage and cloud. **Block - level** Cache Mode： A copy of frequently accessed data is kept on a local storage and all data are also flushed to cloud. Backup Mode：All data are kept on local storage and all data are also flushed to cloud. Tiering Mode: Frequently accessed data is kept on local storage and infrequently accessed data is migrated to cloud		

EonCloud Gateway Version

Feature	EonCloud Gateway Standard	EonCloud Gateway Enterprise	EonCloud Gateway Ultimate
Models applied	Standard license is included by default. Can be upgraded to EonCloud Enterprise version		
	Note: GSe Pro family does not support the EonCloud Ultimate version		
Cloud folder sync/cache	v	v	v
Max. cache settings	5 (90 days trial)	5	10
Cache policy and function parameters	(90 days trial for all) Default(LRU) No applicable Low priority Local only High priority Prepopulated Uncacheable for read Sequentially-preallocate Uncacheable for write	Default(LRU) Low priority High priority 90 days trial for others	Default(LRU) No applicable Low priority Local only High priority Prepopulated Uncacheable for read Sequentially-preallocate Uncacheable for write
Cloud volume cache	(90 days trial)	v	v
Cloud volume backup	(90 days trial)	v	v
Cloud volume tier	(90 days trial)	v	v
Max. connected folder	5	5	32
Max. connected volume	5	5	32
Cloud folder cache size	≦ 1TB	≦ 2PB	≦ 2PB
Cloud volume capacity	≦ 1TB	≦ 2PB	≦ 2PB

Service & Support

Access right management	• User account management • Group management • Folder management - folder access control • NVR Server • Quota management • Integration with Window® AD and LDAP • Folder encryption with AES
Availability and reliability	• Device mapper support • Multi-pathing support • Antivirus • Trunk group support • UPS • WORM(For file level only)
Management	• Web-based EonOne management software • Automated cache flush and caching mode operation per enclosure status • Module status LED indicators: component presence detection & thermal sensors via I2C bus • Storage Resource Management to analyze history records of resource usage • Automate repeatable management tasks by flexible workflow
Notification	Email, SNMP traps

• File explorer • Proxy server • Syslog server • VPN server • LDAP server • Docker • NVR Server
Recommended IP Cam quantity and memory configuration

Model	GSe Pro 100	GSe Pro 200	GSe Pro 200T
Max. IP Cam Supported	16	32	64
Memory Configuration (or above)	4GB	8GB	16GB

OS support		Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 , Windows 7 SP1 / Windows 8.1, Microsoft Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware, Citrix XenServer
Service / support	Standard service	3-year limited hardware warranty and 8x5 phone, web, and email support (Batteries are covered under warranty for 2 years)
	Upgrade/Extension service (optional)	**Warranty extension:** Can extended standard service up to 5 years **Service upgrade:** Replacement part dispatch on the next business day (Can be upgraded to 5 years) • **Advanced service:** 24x7 phone, web, and email support + onsite diagnostics on the next business day(Can be upgraded to 5 years) • **Premium service:** 24x7 phone, web, and email support + onsite diagnostics in 4 hours (Can be upgraded to 5 years) **Note:** Options may vary by region. For more details, please contact our sales representatives.
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