



# EonStor GSi

*Integrate with GPU, Linux operating system and unified storage*



## Highlight

### All-in-One Design

With integrated into a single system computing and storage services, users do not need to separately install computing hosts and storage arrays, which simplifies the installation process and reduces configuration costs.

### Cable-less Modular Design\*

All hardware components have cable-less and modular design, helping to quickly and easily replace damaged components for reducing maintenance complexities. The components are hot-swappable, which means that users do not need to stop the system when replacing them. GSi also provides redundant power supply and fan, eliminating the risk of service interruption caused by damage of a single component.

\* Only GSi 5016 supports modular design

## Introduction

*EonStor GSi is an integrated computing storage system for AI applications . It is equipped with a Linux system, allowing users to install AI-related applications on the Docker platform. Based on Infortrend's more than 25 years of R&D experience, GSi provides enterprise-level unified storage services with high performance, high capacity, and complete data protection.*

### Flexible Configuration of Computing System

GSi product line has desktop and rackmount models. It satisfies the needs of various AI applications, so you can select a suitable solution based on application performance, specifications, the number of processors and graphics cards, and budget considerations.

### Storage Services for AI Applications

Whether your AI operating environment is block level, file level, or even public/private cloud platform, GSi can successfully integrate into it. Its unified storage architecture combines SAN and NAS in a single system. Multiple storage data services, such as snapshots, local/remote replication for computing data backup, are supported. GSi can also be integrated with the cloud platform through the EonCloud gateway. Cloud caching and data tiering modes accelerate cloud data access, while with backup mode, locally stored data is automatically backed up to the cloud. GSi storage system also provides high storage performance to quickly read data from the storage pool and import it into the computing system. Storage capacity can be expanded to up to 7PB by connecting expansion enclosures with up to 436 hard drives. To avoid data loss caused by hard disk damage, GSi can be configured with various RAID protection levels (RAID 1/5/6/10/50/60).

### Easy Management

EonOne is a dedicated graphical management interface for GSi. With just a few clicks, system administrators can install and manage AI applications on Docker, as well as set storage system configurations and monitor system status and storage usage in real time.

## PHYSICAL SPECIFICATIONS

Product Series	GSi 208T	GSi 5016GL	GSi 5016GE	GSi 5016GT	GSi 5016GU
CPU	Intel® Pentium® Processor D-1517 4-Core 1.60 GHz	Intel® Core™ i3-8100 4-Core 3.6GHz	Intel® Xeon® E-2226GE 6-Core 3.4GHz	Intel® Xeon® E-2276G 6-Core 3.8GHz	Intel® Xeon® E-2278GE 8-Core 3.3GHz
Cache Memory	DDR4 8GB (non-ECC) Expandable to 32GB	DDR4 16GB Expandable to 64GB	DDR4 16GB Expandable to 128GB		
Supported Drives	2.5" SATA SSD 3.5" SATA HDD (7,200 RPM)	2.5" SAS/SATA SSD 3.5" NL-SAS/SATA HDD (7,200 RPM)			
Max. Drives Number	8	436			
Rear I/O Port	<ul style="list-style-type: none"> <li>• mini USB x 1</li> <li>• 1Gb/s (RJ-45) x 2</li> <li>• 10Gb/s (SFP+) x 2</li> <li>• USB 3.0 x 2</li> <li>• USB 3.1 Gen2 x 2</li> </ul>	<ul style="list-style-type: none"> <li>• mini USB x 1</li> <li>• 1Gb/s (RJ-45) x 4</li> <li>• SAS 12Gb/s (for JBOD) x 1</li> <li>• USB 2.0 x 2</li> <li>• USB 3.0 x 2</li> </ul>			
PCI-Express Slot (For GPU)	(PCIe x 8) x 1	(PCIe x 8) x 2			
Dimensions (without Chassis Ears/Protrusions) (W x H x D)	345 x 168 x 254mm	447.4mm x 130mm x 500mm			
Package Dimensions (W x H x D)	456 x 269 x 366mm	780mm x 253mm x 588mm			
Power Supply Unit	Power Supplies (Redundant/Hot-swappable)	250W (80 PLUS Bronze)	800W (80 PLUS Platinum)		
	AC Voltage (with PFC(Auto-switching))	100VAC @ 6A to 240VAC @ 3A	100-127VAC @ 10A to 200-240VAC @ 5A		
	Frequency	50-60 Hz			
Safety Standard	<ul style="list-style-type: none"> <li>• Electromagnetic Compatibility : CE, BSMI, FCC</li> <li>• Safety : UL, BSMI, CB</li> </ul>				

## 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				
Max. Pool Size	2PB	Max. Host LUN Mapping Number		4096	
Max. Pool Number	32	Max. Reserved Tag Number per Host-LUN Connection		Up to 256	
Max. Volume Size	2PB	Max. iSCSI sessions (per controller)		416	
Max. Volume Number (per pool/per system)	1024	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 2.2.2), 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			
Management	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
		<ul style="list-style-type: none"> <li>• User account management</li> <li>• Group management</li> <li>• Folder management - folder access control</li> <li>• Quota management</li> </ul>		<ul style="list-style-type: none"> <li>• Integration with Microsoft Active Directory (AD) and LDAP</li> <li>• Folder encryption with AES</li> <li>• Web-based EonOne management software</li> <li>• Storage Resource Management to analyze history records of resource usage</li> </ul>	
Availability and Reliability	<ul style="list-style-type: none"> <li>• Redundant, hot-swappable hardware modules</li> <li>• Device mapper support</li> <li>• Antivirus</li> <li>• Trunk group support</li> </ul>		<ul style="list-style-type: none"> <li>• Cache Safe technology</li> <li>• UPS</li> <li>• WORM (For file level only)</li> <li>• SMB Multichannel</li> </ul>		
Notification	• Email	• SNMP traps			
Applications	<ul style="list-style-type: none"> <li>• File explorer</li> <li>• Proxy server</li> </ul>	<ul style="list-style-type: none"> <li>• Syslog server</li> <li>• VPN server</li> </ul>	<ul style="list-style-type: none"> <li>• LDAP serve</li> <li>• Docker</li> </ul>		
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				
	<b>Note:</b> 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
DRAM:128GB or more                            Max SSD Cache Pool Size: 3,200GB	

## 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
		• 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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