



EonStor GSi

Integrate with GPU, Linux operating system and unified storage



Highlights

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 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 or file level, GSi can integrate into it smoothly. GSi storage system 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.

Complete Data Service and Protection

GSi offers snapshots, local replication, and remote replication for computing data backup. To avoid data loss caused by disk failures, the storage system can be configured with varied RAID protection levels. With EonCloud Gateway, GSi can integrate with public and private cloud platforms in different modes: Cloud caching and data tiering modes accelerate cloud data access, while backup mode automatically backs up locally stored data to the cloud.

You can also leverage the immutable object storage and WORM (write once read many) to safeguard data from ransomware attacks. As an extra layer of protection for administrative account access, multi-factor authentication (MFA) is supported to reduce the risk of malicious attacks following password theft.

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 5000			
Form Factor	3U 16-bay	GSI 5016GL	GSI 5016GE	GSI 5016GT	GSI 5016GU
CPU		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 16GB Expandable to 128GB			
Supported Drives		2.5" SAS/SATA SSD 3.5" 6Gb/s SATA 7,200 RPM HDD 3.5" 12Gb/s NL-SAS 7,200 RPM HDD			
Max. Drives Number		436			
Rear I/O Port		<ul style="list-style-type: none"> • mini USB x 1 • 1Gb/s (RJ-45) x 4 • SAS 12Gb/s (for JBOD) x 1 • USB 2.0 x 2 • USB 3.0 x 2 			
PCI-Express Slot (For GPU)		(PCIe x 8) x 2			
Dimensions (without Chassis Ears and Protrusions) (W x H x D)		447.4mm x 130mm x 500mm			
Package Dimensions (W x H x D)		780mm x 253mm x 588mm			
Power Supply Unit	Power Supplies	800W (80 PLUS Platinum) (Redundant / Hot-swappable)			
	AC Voltage (with PFC(Auto-switching))	100-127VAC @ 10A to 200-240VAC @ 5A			
	Frequency	50-60 Hz			
Environmental (Without GPU)	Temperature	Operating: 0 to 40°C, Non-operating: -40 to 60°C			
	Altitude	Operating: sea level to 3,660m (12,000ft), Non-operating: sea level to 12,192m (40,000ft)			
	Relative humidity	5 to 95% non-condensing, operating and non-operating			
Safety Standard		<ul style="list-style-type: none"> • Electromagnetic compatibility: CE, BSMI, FCC • Safety: UL, BSMI, CB 			

SOFTWARE SPECIFICATIONS

Max. Logical Drives Number	32				
Max. Logical Drives Capacity	512 TB				
Stripe Size (per Logical Drive)	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, 1024KB				
Write 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			
	Max. Number of Concurrent Connections	NFS/CIFS/AFP	• 16 GB memory: 200	• 32 GB memory: 512	• 64 GB memory: 1024
	FTP	• With any memory: 1024			
Management	<ul style="list-style-type: none"> • Multi-factor authentication login mechanism • 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"> • 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 		
Notification	• Email	• SNMP traps			
Applications	• File explorer • Proxy server	• Syslog server • VPN server	• LDAP serve • Docker		
Supported Cloud Services	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				
Supported OS	Microsoft Windows Server ,Red Hat Enterprise Linux, Mac OS X, VMware Note: For OS version support, please refer to the compatibility matrix.				

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	
SSD Cache	Block-level	Optional	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 and up	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	<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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