



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 Infotrend'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 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 200 | | | GSI 5000 | | |
|---|---|---|--|---|------------|------------|
| Form Factor | 8-bay Desktop 3U 16-bay | GSI 208T | - | - | - | - |
| CPU | Intel® Pentium® Processor D-1517 4-Core 1.60 GHz" | Intel® Core™ i3-8100 4-Core 3.6GHz | GSI 5016GL | GSI 5016GE | GSI 5016GT | GSI 5016GU |
| Cache Memory | DDR4 8GB (non-ECC) Expandable to 32GB | 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" 6Gb/s SATA 7,200 RPM HDD 3.5" 12Gb/s NL-SAS 7,200 RPM HDD | | | | |
| Max. Drives Number | 8 | | 436 | | | |
| Rear I/O Port | <ul style="list-style-type: none"> • mini USB x 1 • 1Gb/s (RJ-45) x 2 • 10Gb/s (SFP+) x 2 • USB 3.0 x 2 • USB 3.1 Gen2 x 2 | | <ul style="list-style-type: none"> • mini USB x 1 • 1Gb/s (RJ-45) x 4 • SAS 12Gb/s (for JBOD) x 1 • USB 3.0 x 2 • USB 3.0 x 2 | | | |
| PCI-Express Slot (For GPU) | (PCIe x 8) x 1 | | (PCIe x 8) x 2 | | | |
| Dimensions (without Chassis Ears and 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 | 250W (80 PLUS Bronze) | | 800W (80 PLUS Platinum) (Redundant / Hot-swappable) | | |
| | AC Voltage (with PFC(Auto-switching)) | 100VAC @ 8A to 240VAC @ 4A | | 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

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|--|---|---|---|
| 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 | |
| | Max. Number of Concurrent Connections | NFS/CIFS/AFP | • 16 GB memory: 200 |
| Management | FTP | • With any memory: 1024 | |
| | | <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

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|---------------------------|--------------------|-------------|---|--|
| Thin Provisioning | | Default | "Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space. | |
| Local Replication | File level | Optional | Snapshot images per folder: 1024 | |
| | 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 | Support 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

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|---------------------|------------------------------|--|
| 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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