



# INFORTREND EONSTOR GSi

## APPLIANCES DE ARMAZENAMENTO COM AI



### DESTAQUES PRINCIPAIS

- ◆ Basta um GSi para implementar aplicações IA com storage integrado
- ◆ Ambiente concebido para IA para rápida configuração
- ◆ Solução de storage de elevada performance e fiabilidade
- ◆ EonCloud Gateway integrada para optimização de storage e recursos informáticos
- ◆ Ferramenta de gestão EonOne, fácil de utilizar, sem complexidade

### Obtenha vantagens competitivas adicionais com inteligência artificial (AI)

Os GSi são soluções inovadoras, especialmente pela AI que integra o storage (SAN e NAS).

Computação (CPU e GPU) e networking, tudo numa única solução. A vantagem desta abordagem com design integrado resultou numa menor sobrecarga da rede, redução da demora no armazenamento e menor OPEX e CAPEX. Com os GSi, as empresas conseguem transitar imediatamente para a AI, sem hardware complicado e configuração de software.

Os GSi herdaram a performance superior da gama Infortrend GS com capacidade para expansão PB-sale e inclui duas séries. A série EonStor GSi 3000 é a solução eficiente em termos de custo ideal para AIoT e Edge Computing. A série EonStor GSi 5000 é a solução de alta performance adequada a modelos de treino DL/ML

Cenários de utilização IA

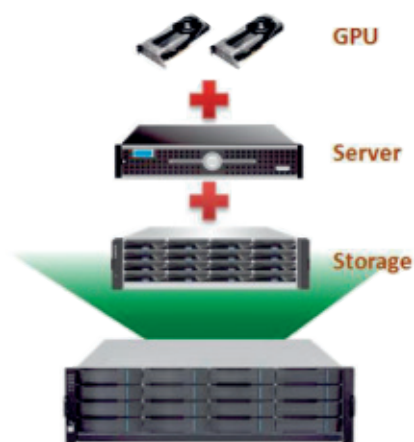
#### GSi 3000

Supportam um GPU para produção e implementação de modelos de treino DL/ML

#### GSi 5000

Supportam múltiplos GPUs para modelos de treino DL/ML

Series



A gama GSi disponibiliza ainda uma gateway cloud integrada para otimizar o armazenamento e recursos informáticos entre edge e cloud para várias aplicações AI, apoiando a conectividade com importantes serviços cloud. Quando um GSi é utilizado para operações edge, são efectuados e armazenados localmente cálculos preliminares. Estes cálculos úteis podem de seguida ser enviados para a cloud, para integração com os recursos informáticos. Os GSi suportam, atualmente, conectividade com os principais serviços cloud, tais como a Amazon S3, Microsoft Azure, Openstack Swift e Alibaba Cloud. Combinando um elevado desempenho de armazenamento unificado com a gateway cloud integrada para optimização do storage e recursos de computação, a família de produtos EonStor GSi pode ser a sua melhor opção para obter mais vantagens competitivas através da inteligência artificial (AI) e machine learning (ML).

Specifications (per system)	GSi 3016	GSi 5016
Form factor	3U 16-bay	
Storage controller	Single controller	
Max drives	448	
Power supply unit <sup>1</sup>	Power Supply: Two redundant 530W Voltage and Frequency: 100` 127Vac, 200` 240Vac, 47-63Hz	Power Supply: Two redundant 1200W PSU Frequency: 200-240Vac, 47-63Hz
CPU	Intel Xeon E3-1275v3, Quad-core 3.5G	Intel Xeon E5-2620 v4, 8-core 2.1G
Memory	32GB DDR3	64GB,128GB,256GB,512GB,1024GB DDR4
Onboard SAS expansion ports	1	1
Onboard iSCSI ports (10Gb SFP+)	0	2
Onboard iSCSI ports (1Gb RJ-45)	4	4
USB ports	USB 3.0 x 2 USB 2.0 x 2	
Max. number of logical drives	32	
Max. logical drive capacity	512 TB	
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	2 PB	
Max. number of pools	32	
Max. number of volumes (per pool/ per system)	1024	
Max. number of LUNs mappable	4000	
Max. volume size	2 PB	
Number of tags reserved for each Host-LUN connection	Up to 256	
Max iSCSI Initiators	832	
File Level	Max. file system size	2PB
	Max. number of user accounts	20000
	Max. number of user groups	512
	Max. number of folder sharing(NFS/CIFS/AFP <sup>®</sup> /FTP)	2048
	Max. number of rsync jobs	1024
	Max. number of rsync concurrent processes	64
	Max. number of connections for a folder (NFS/CIFS/AFP <sup>®</sup> /FTP)	2048 per controller
RAID options	RAID 0, 1 (0+1), 3, 5, 6, 10, 30, 50, 60	
Protocol support	File Level Protocol CIFS/ SMB: Version 2.0/3.0, NFS: Version 2/3/4, AFP, FTP, FXP, WebDAV Block Level Protocol iSCSI, SAS Object Level Protocol Openstack Swift	
Cloud gateway	Support the integration with following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud	
Green design	<ul style="list-style-type: none"> <li>• 80 PLUS power supplies delivering more than 80% energy efficiency</li> <li>• Intelligent multi-level drive spin-down</li> </ul>	
Regulatory	<ul style="list-style-type: none"> <li>• Electromagnetic Compatibility : CE, BSMI, FCC, KC</li> <li>• Safety : UL, BSMI, CB, EAC</li> </ul>	

1. Power is also supplied in redundant mode, allowing full operation with half the resources.

Specifications (per system)	GSi 3016	GSi 5016
Available models	GSi 3016G	GSi 5016G
Supported drives	2.5 or 3.5 "HDD, SSD	
Rack Support	4U, 19-inch rackmount	
Dimensions	447.4 (W) x 130 (H) x 500 mm(D)	449 (W) x 130 (H) x 650mm (D)
Package Dimensions	591(W)x295(H)x800mm (D)	
Expansion enclosure(JBOD)	JB3016/JB3060G/JB3060GL	

## Data Service

	Snapshot	Snapshot images per source volume Snapshot images per system Standard License: 128 / Advanced License: 4096 Standard License: 64 / Advanced License: 256																
Local Replication <sup>2</sup> (Standard license is included by default and advanced is an optional license)	Volume Copy/Mirror	Replication pairs per source volume Replication pairs per system Standard License: 4 / Advanced License: 8 Standard License: 16 / Advanced License: 256																
Thin Provisioning (default included)	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space																	
Self-encrypting drives	Unique factory encryption secures data plus makes deletion simple and complete																	
Remote Replication(Block level) <sup>4</sup>	Replication pairs per source volume: 8 Replication pairs per system: 64																	
Remote Replication(File Level)	Rsync with 128-bit SSH encryption between Infortrend EonStor GS, GSe and EonNAS																	
Automated Storage Tiering <sup>1</sup>	Two(2) or four(4) storage tiers based on drive types SSD supports																	
SSD Cache <sup>1</sup>	<ul style="list-style-type: none"> <li>Accelerating data access for random read-intensive environments, such as OLTP</li> <li>Supports up to four SSDs per controller</li> <li>Recommended DIMM capacity for SSD Cache pool:</li> </ul> <table border="1"> <tr> <td>DRAM:8GB</td> <td>Max SSD Cache Pool Size: 300GB</td> <td>DRAM:128GB</td> <td>Max SSD Cache Pool Size: 3,200GB</td> </tr> <tr> <td>DRAM:16GB</td> <td>Max SSD Cache Pool Size: 400GB</td> <td>DRAM:256GB</td> <td>Max SSD Cache Pool Size: 3,200GB</td> </tr> <tr> <td>DRAM:32GB</td> <td>Max SSD Cache Pool Size: 800GB</td> <td>DRAM:512GB</td> <td>Max SSD Cache Pool Size: 3,200GB</td> </tr> <tr> <td>DRAM:64GB</td> <td>Max SSD Cache Pool Size: 1,600GB</td> <td>DRAM:1024GB</td> <td>Max SSD Cache Pool Size: 3,200GB</td> </tr> </table>		DRAM:8GB	Max SSD Cache Pool Size: 300GB	DRAM:128GB	Max SSD Cache Pool Size: 3,200GB	DRAM:16GB	Max SSD Cache Pool Size: 400GB	DRAM:256GB	Max SSD Cache Pool Size: 3,200GB	DRAM:32GB	Max SSD Cache Pool Size: 800GB	DRAM:512GB	Max SSD Cache Pool Size: 3,200GB	DRAM:64GB	Max SSD Cache Pool Size: 1,600GB	DRAM:1024GB	Max SSD Cache Pool Size: 3,200GB
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EonCloud Gateway	<b>File-level</b> Cache Mode: A copy of frequently accessed file is kept on local storage and all files is also upload to cloud Sync Mode: Synchronizing files between local storage and cloud. <b>Block Level</b> Cache Mode: A copy of frequently accessed data is kept on local storage and all data is also flushed to cloud Backup Mode: All data is kept on local storage and all data is also flushed to cloud Tiering Mode: Frequently accessed data is kept on local storage and infrequently accessed data is migrated to cloud																	
Access right management	<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> <li>Integration with Windows® AD and LDAP</li> <li>Folder encryption with AES</li> </ul>																	
Availability and reliability	<ul style="list-style-type: none"> <li>Redundant, hot-swappable hardware modules</li> <li>CacheSafe technology</li> <li>Multi-pathing support</li> <li>Antivirus</li> <li>Trunk group support</li> <li>Device mapper support</li> <li>UPS</li> <li>WORM<sup>3</sup></li> </ul>																	
Management	<ul style="list-style-type: none"> <li>Web-based EonOne management software</li> <li>Automated cache flush and caching mode operation per enclosure status</li> <li>Module status LED indicators: component presence detection &amp; thermal sensors via I2C bus</li> <li>Storage Resource Management to analyze history records of resource usage</li> <li>Automate repeatable management tasks by flexible workflow</li> </ul>																	
Notification	Email, SNMP traps																	
Applications	<ul style="list-style-type: none"> <li>File explorer</li> <li>Proxy server</li> <li>Syslog server</li> <li>VPN server</li> <li>LDAP server</li> <li>Docker</li> </ul>																	
OS support	Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 / 2016, Microsoft Windows Hyper-V, Red Hat Enterprise, Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware, Citrix XenServer, OpenStack Cinder																	
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/extension options	Replacement part dispatch on the next business day (up to 5 years) Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years																
	Infortrend Service Center	Request Support, Knowledge Base, Download Center, Licensing Service, and News																

1. Optional

2. Available with Standard license and optional advanced license

3. For file level only

4. The maximum number of replication pair per source volume is up to 8, regardless of remote asynchronous/remote synchronous/local volume pairs

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