



# EonStor GSc Family

## Hybrid Cloud Storage Appliance Designed to Streamline Enterprise Cloud Deployment and Access



### Product Highlights

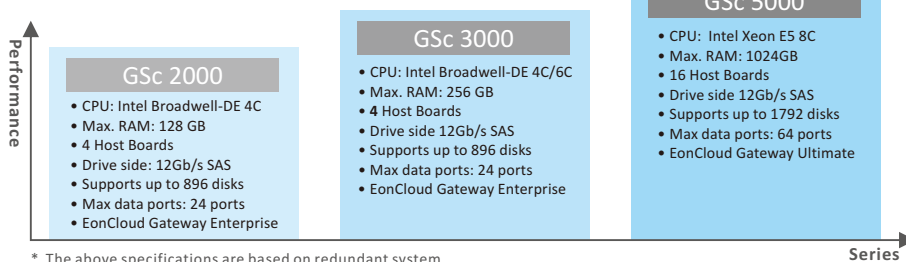
- **Easy cloud integration with the existing IT environment and applications** with general file or block-level as well as the local and cloud data through the common protocols. (e.g. NFS/CIFS/FTP/Rsync/iSCSI)
- **Enable faster cloud data access** by designate the local storage to act as cloud cache
- **Flexible cache policy** with more than 9 types of intelligent cache policies and extensive parameter settings
- **Cost-savings on cloud service and bandwidth** with built-in data compression and deduplication features
- **Scalable big data support** with up to 2PB of cloud storage space and hundreds million files in the cloud
- **Secure and protect enterprise data** with AES 256-bit data encryption and ensures no public cloud data can be decrypted by anyone else. All transmissions to and from the cloud are SSL/TLS encrypted
- **Simple-to-use** and web-based cloud management interface can be operated by any IT staff with a general browser, reducing the management complexity.
- **Powerful local storage** with excellent block/file level performance and can deliver up to 700K IOPS, 23,000MB/s block and 17,000 MB/s CIFS bandwidth

### Introduction

Today companies across industries and verticals are getting on the cloud. Infortrend introduced all new EonStor GSc family of hybrid cloud storage appliance designed for businesses to streamline cloud deployment by moving and managing data between local and cloud in a transparent manner. GSc offers differentiated features in cloud cache, cloud backup, and cloud tiering.

GSc family inherited company's GS line of superior unified storage performance and available in 3 series. EonStor GSc 2000 / 3000 series are cost-effective solutions to meet the cloud storage needs from SMBs to large enterprises. EonStor GSc 5000 series is the high performance cloud storage system designed for modern data centers.

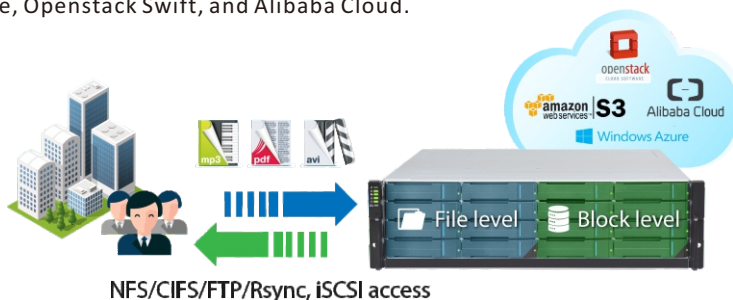
### GSc Portfolio



Integrated with cloud storage gateway functions, GSc simplifies cloud setup by maintaining compatibility with existing IT environment and offers cloud data access to both file and block-level using common protocols, thus greatly reduced the difficulty to reconfigure.

In addition, GSc allows enterprise with data already on the cloud to speed-up cloud access by designating the local storage as cache. With advanced cache feature, IT managers can further optimize cache performance with 9 types of intelligent cache policies with extensive parameter settings. Cloud backup feature also enables local data to take periodic snapshots to the cloud for remote backup. Cloud tiering feature places the frequently accessed hot data in the local while less-frequently accessed cold data to the cloud.

Data security has always been the top concern for enterprises to get on the cloud. GSc supports AES 256-bit data encryption and ensures no public cloud data can be decrypted by anyone else. Furthermore, all transmissions to and from the cloud are SSL encrypted to ensure additional data security. Built-in data compression and deduplication features can effectively reduce the amount of cloud data space used, resulting in cost-savings. Initially, GSc offers connectivity to Amazon S3, Microsoft Azure, Openstack Swift, and Alibaba Cloud.



## EonStor GSc Family

1. Model name "T" means high performance

## GSc 2000(T)/3000(T) Series

Form Factor	2U 12-bay	3U 16-bay	4U 24-bay
Available Models	GSc 3012RC/SC GSc 3012RTC/STC GSc 2012RC/SC GSc 2012RTC/STC	GSc 3016RC/SC GSc 3016RTC/STC GSc 2016RC/SC GSc 2016RTC/STC	GSc 3024RC/SC GSc 3024RTC/STC GSc 2024RC/SC GSc 2024RTC/STC
	<b>Note:</b> <b>G:</b> Single controller <b>S:</b> Single controller (upgradable to dual controller) <b>R:</b> Redundant controller <b>T:</b> High Performance <b>C:</b> Super capacitor		
Supported drives	<ul style="list-style-type: none"> <li>• 2.5" SAS SSDs</li> <li>• 2.5" SATA SSDs</li> <li>• 2.5" 10,000 RPM SAS HDD</li> <li>• 2.5" 15,000 RPM SAS HDD</li> <li>• 3.5" 7,200 RPM Nearline SAS HDD</li> <li>• 3.5" 7,200 RPM SATA HDD</li> </ul>	<ul style="list-style-type: none"> <li>• 2.5" SAS SSDs</li> <li>• 2.5" SATA SSDs</li> <li>• 2.5" 10,000 RPM SAS HDD</li> <li>• 2.5" 15,000 RPM SAS HDD</li> <li>• 3.5" 7,200 RPM Nearline SAS HDD</li> <li>• 3.5" 7,200 RPM SATA HDD</li> </ul>	<ul style="list-style-type: none"> <li>• 2.5" SAS SSDs</li> <li>• 2.5" SATA SSDs</li> <li>• 2.5" 10,000 RPM SAS HDD</li> <li>• 2.5" 15,000 RPM SAS HDD</li> <li>• 3.5" 7,200 RPM Nearline SAS HDD</li> <li>• 3.5" 7,200 RPM SATA HDD</li> </ul>
	<b>Note:</b> For the latest compatibility details, refer to our official website for the latest EonStor GS Compatibility Matrix.		
Max. drives number	896	896	896
Rack Support	2U, 19-inch rackmount	3U, 19-inch rackmount	4U, 19-inch rackmount
Dimensions (Without chassis ears/ protrusions)	447(W)x88(H)x500(D)mm	447(W)x130(H)x500(D)mm	447(W)x175(H)x500(D)mm
Package Dimensions	780(W)x379(H)x588(D)mm	780(W)x423(H)x588(D)mm	780(W)x465(H)x588(D)mm
Expansion enclosure(JBOD)		JB 3012A    JB 3025BA JB 3016A    JB 3060 JB 3024BA    JB 3060L	

Form Factor	4U 60-bay	2U 24-bay	2U 25-bay
Available Models	GSc 3060RCL GSc 3060GL GSc 3060RTCL GSc 3060GTL	GSc 2024RCB/SCB GSc 2024RTCB/STCB GSc 3024RCB/SCB	GSc 3025RCB/SCB GSc 3025RTCB/STCB
	<b>Note:</b> <b>G:</b> Single controller <b>S:</b> Single controller (upgradable to dual controller) <b>R:</b> Redundant controller <b>T:</b> High Performance <b>C:</b> Super capacitor <b>L:</b> One Drawer (for GSc 3060)		
Supported drives	<ul style="list-style-type: none"> <li>• 2.5" SAS SSDs</li> <li>• 2.5" SATA SSDs</li> <li>• 2.5" 10,000 RPM SAS HDD</li> <li>• 2.5" 15,000 RPM SAS HDD</li> <li>• 3.5" 7,200 RPM Nearline SAS HDD</li> <li>• 3.5" 7,200 RPM SATA HDD</li> </ul>	<ul style="list-style-type: none"> <li>• 2.5" SAS SSDs</li> <li>• 2.5" SATA SSDs</li> <li>• 2.5" 10,000 RPM SAS HDD</li> <li>• 2.5" 15,000 RPM SAS HDD</li> <li>• 3.5" 7,200 RPM Nearline SAS HDD</li> <li>• 3.5" 7,200 RPM SATA HDD</li> </ul>	<ul style="list-style-type: none"> <li>• 2.5" SAS SSDs</li> <li>• 2.5" SATA SSDs</li> <li>• 2.5" 10,000 RPM SAS HDD</li> <li>• 2.5" 15,000 RPM SAS HDD</li> <li>• 3.5" 7,200 RPM Nearline SAS HDD</li> <li>• 3.5" 7,200 RPM SATA HDD</li> </ul>
	<b>Note:</b> 1. <b>2U 24-bay</b> and <b>2U 25-bay</b> support 3.5" drives in 3.5" JBOD 2. For the latest compatibility details, refer to our official website for the latest EonStor GS Compatibility Matrix.		
Max. drives number	896	896	896
Rack Support	4U, 19-inch rackmount	2U, 19-inch rackmount	2U, 19-inch rackmount
Dimensions (Without chassis ears/ protrusions)	448(W)x176(H)x840(D)mm	447(W)x88(H)x500(D)mm	447(W)x88(H)x500(D)mm
Package Dimensions	620(W)x460(H)x1140(D)mm	780(W)x338(H)x588(D)mm	780(W)x340(H)x588(D)mm
Expansion enclosure(JBOD)		JB 3012A    JB 3025BA JB 3016A    JB 3060 JB 3024BA    JB 3060L	

## GSc 5000 Series

Form Factor	4U (No internal bay. Expansion enclosure required.)	
Available Models	GSc 5100RL	GSc 5200RL
	<b>Note:</b> <b>R:</b> Redundant controller <b>L:</b> BBU (for GSc 5000)	
Supported drives	<ul style="list-style-type: none"> <li>• 2.5" SAS SSDs</li> <li>• 2.5" SATA SSDs</li> <li>• 2.5" 10,000 RPM SAS HDD</li> <li>• 2.5" 15,000 RPM SAS HDD</li> <li>• 3.5" 7,200 RPM Nearline SAS HDD</li> </ul>	
	<b>Note:</b> For the latest compatibility details, refer to our official website for the latest EonStor GS Compatibility Matrix.	
Max. drives number	1792	
Rack Support	4U, 19-inch rackmount	
Dimensions (Without chassis ears/ protrusions)	447(W)x175(H)x577mm (D)	
Package Dimensions	591(W)x295(H)x800mm (D)	
Expansion enclosure(JBOD)	JB 3012A    JB 3025BA JB 3016A    JB 3060 JB 3024BA    JB 3060L	

## Data Service

Self-encrypting drives	Unique factory encryption secures data plus makes deletion simple and complete		
Thin Provisioning (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 Snapshot images per system	Standard License: 64 / Advanced License: 256 Standard License: 128 / Advanced License: 4096
	Volume Copy/Mirror	Replication pairs per source volume Replication pairs per system	Standard License: 4 / Advanced License: 8 Standard License: 16 / Advanced License: 256
	<b>Note:</b> 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		
	<b>Note:</b> 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) or four(4) storage tiers based on drive types SSD supports		
SSD Cache (optional)	<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>		
	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
EonCloud Gateway	<b>File - level</b>		
	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.		
	<b>Block - level</b>		
	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 Enterprise	EonCloud Gateway Ultimate
Models applied	For <b>GSc 2000/3000</b> : Enterprise license is included by default. Can be upgraded to EonCloud Ultimate version For <b>GSc 5000</b> : Ultimate license is included by default	
Cloud folder sync/cache	v	v
Max. cache settings	5	10
Cache policy and function parameters	Default(LRU) Low priority High priority 90 days trial for others	Default(LRU) Low priority High priority Uncacheable for read Uncacheable for write No applicable Local only Prepopulated Sequentially-preallocate
Cloud volume cache	v	v
Cloud volume backup	v	v
Cloud volume tier	v	v
Max. connected folder	5	32
Max. connected volume	5	32
Cloud folder cache size	≤ 2PB	≤ 2PB
Cloud volume capacity	≤ 2PB	≤ 2PB

## Service &amp; Support

Access right management	<ul style="list-style-type: none"> <li>User account management</li> <li>Quota management</li> </ul>	<ul style="list-style-type: none"> <li>Group management</li> <li>Integration with Window® AD and LDAP</li> </ul>	<ul style="list-style-type: none"> <li>Folder management - folder access control</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>Trunk group support</li> </ul>	<ul style="list-style-type: none"> <li>Device mapper support</li> <li>CacheSafe technology</li> </ul>	<ul style="list-style-type: none"> <li>Multi-pathing support</li> <li>UPS</li> <li>Antivirus</li> <li>WORM(For file level only)</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	File explorer • Proxy server • Syslog server • VPN server • SyncCloud • LDAP server		
OS support	Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 / 2016 , 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, 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	
	Infotrend Service Center	Request Support, Knowledge Base, Download Center, Licensing Service, and News	

