

Highlights

High Performance and Scalability

- Massive sequential throughput of up to 16GB/s read and 12GB/s write per appliance
- Scale-out and scale-up expansions, providing more than 70PB in a single GS cluster

Easy to Use and Manage

- Single namespace for easier data access
- Auto-balancing to reduce the burden of storage management for IT staff

High-Density Design

 Reduce hardware footprint with 4U 40/60/90-bay models

Lower Total Cost of Ownership

 Save budgets by using only a few SAS/U.2 NVMe SSDs for cache to reach near all-flash system performance, in both SAN and NAS environments

Nondisruptive Operations

 HA service ensures non-stop operations with a near-zero RTO (recovery time objective) by deploying two storage devices to provide services from two separate sites.

Introduction

EonStor GS SAS HDD storage series is a unified storage solution for enterprises of all sizes in various applications. Supporting hybrid environments that integrate SAN, NAS, and cloud services, this series includes a wide range of models ready to meet different needs, from performance-hungry applications, general enterprise workloads, to storage solutions requiring a high-density hardware design. With its high performance, flexibility, and scalability, EonStor GS can help organizations boost overall productivity and efficiency.

High Performance

EonStor GS provides high throughput to handle large amounts of I/O and file transfers, even under heavy workloads. The G3 models, which feature high-speed transmission interfaces and protocols, deliver up to 16GB/s read and 12GB/s write in throughput on a single appliance.

Flexible Scalability with Scale-out and Scale-up

Through the scale-out expansion, you can linearly increase performance and capacity for both block-level and file-level data. When one GS unit is no longer able to provide enough performance or capacity, you can simply add more GS appliances to form a cluster—with a maximum of 4 GS units.

Through scale-up expansion, each GS unit can be connected to JBOD expansion enclosures to add up to 896 drives. Together with scale-out expansion, GS supports more than 3000 drives with over 70PB storage capacity.

Easy Data Access and Simple IT Management

Users can access shared folders in a single root directory under a single namespace, without having to worry about where the data is stored. Auto-balancing is also supported to achieve load balancing, which relieves the burden of manual planning and configuration for IT personnel.



High-Density Design

Enterprises with limited rack space can still get a powerful and high capacity storage solution. Leveraging the high-density 4U 40, 60, or 90-bay models, you can easily achieve your workload requirements with a reduced hardware footprint.

Storage Efficiency with Better TCO

EonStor GS supports SSD cache, which leverages the high speed and low latency of SSDs to deliver faster performance for frequently accessed data. By using only a few SSDs on an HDD-based appliance, SSD cache can help meet enterprises' requirements for both high I/O loads and large storage capacity at a reduced total cost of ownership (TCO). This feature brings advantages to read-intensive SAN environments, such as online transaction processing (OLTP) and email service (e.g. Microsoft Exchange). It also enhances read and write performance for NAS and improves user experience with file operation when a large number of files are stored on a GS unit.

In addition, EonStor GS comes with inline compression and offline deduplication, which reduces the storage capacity required and thus saves further storage costs. The inline compression feature compresses raw files in real-time, which greatly reduces the data size and the transfer time. To deal with repeated files saved by manual backups or archiving, offline deduplication helps you automatically remove duplicate data from an appliance or a cluster to free up storage space.

Complete Data Protection and Backup

EonStor GS offers various data protection mechanisms to guarantee data safety. First, Infortrend's unique RAID technology ensures your data remains intact even in case of a drive failure. With snapshot, a flexible backup tool, you can back up local resources on a storage system by schedule, including volumes and shared folders, and roll back to a previous version when needed. For further protection, you can back up data to a remote GS appliance using the remote replication feature, or to a public cloud with EonCloud Gateway.

Immutable object storage, another crucial feature for data protection, safeguards data against ransomware attacks. It retains data with WORM (write once read many) storage protection, where data gets "locked" and therefore cannot be modified, deleted, overwritten, or even encrypted by ransomware. By setting a retention period, you can easily follow government compliance requirements or company policies on data retention.

For companies requiring an easy-to-use and reliable storage solution for file backup, EonStor GS can be utilized as a backup appliance, allowing you to leverage its backup server function to back up data from PC, file servers, and public cloud through a GUI interface. Additionally, you can set options such as a backup schedule and a retention period to best fit your needs.

New Level of High Availability

From power supplies, cooling fans, to controllers, the EonStor GS appliance is built in a modular, redundant, and hot-swappable hardware design, which reduces maintenance complexity and ensures uninterrupted services, whether during a regular system upgrade or even in an unplanned maintenance event due to a component failure.

In addition, EonStor GS offers HA service to deliver continuous availability with a near-zero RTO (recovery time objective) and a zero RPO (recovery point objective). With two storage devices deployed at near sites, the HA service provides block-level active-active storage and file-level active-passive storage for business-critical applications that have an extremely low tolerance for downtime. Featuring synchronous remote replication and auto-failover, this solution ensures identical and complete copies of data are stored on both storage devices and avoids service downtime due to planned or unexpected events. Auto-failback is available in block-level HA service, allowing a storage device to resume services without switching manually.

Intuitive Management Software

EonStor GS adopts EonOne, a web-based management software tool, to assist customers in raising storage and service efficiency for increased productivity. With its intuitive interface design, IT administrators can easily manage a cluster and multiple appliances, monitor performance and capacity usage, and complete system configurations, all from one centralized interface.

Product Series Form Factor Controller Cache Backup Te	2U 12-bay 3U 16-bay 4U 24-bay 4U 40-bay 4U 60-bay		GS 1000 Gen2 GS 1012R2C/S2C GS 1016R2C/S2C	GS 2000 GS 2012R/S GS 2012RT/ST GS 2016R/S	GS 3000 G3 GS 3012 R3/S3	GS 4000 G3 GS 4012 R3/S3			
Controller	3U 16-bay 4U 24-bay 4U 40-bay 4U 60-bay			GS 2012 RT/ST		GS 4012 R3/S3			
Controller	4U 24-bay 4U 40-bay 4U 60-bay		GS 1016 R2C/S2C						
Controller	4U 40-bay		 	GS 2016 RT/ST	GS 3016 R3/S3	GS 4016 R3/S3			
Controller	4U 60-bay		GS 1024 R2C/S2C	GS 2024 R/S GS 2024 RT/ST	GS 3024 R3/S3	GS 4024 R3/S3			
			-	-	GS 3040 RT3/ST3 GS 3040 RT3C/ST3C	GS 4040 R3/S3 GS 4040 R3C/S3C			
			-	-	GS 3060RT3/ST3 GS 3060RT3C/ST3C	GS 4060 R3/S3 GS 4060 R3C/S3C			
	4U 90-bay		_	-	GS 3090 RT3/ST3	GS 4090 R3/S3			
			GS 3090RT3C/ST3C GS 4090R3C/S3C						
Cache Backup Te			T: High performance C: Super capacitor (GS 1000 Gen2, GS2000) C: U.2 SSD cache (GS 3000/4000 G3) Dual redundant or single upgradable to dual redundant						
	chnology				r + flash module				
CPU			Intel® Atom® 4-Core	Intel® Pentium® 2-Core Intel® Pentium® 4-Core (for T models)	Intel® Xeon® D 4-Core	Intel® Xeon® D 6-Core			
Cache Memory	Single Controller		Default DDR3 8GB, up to 16GB	Default DDR4 8GB, up to 64GB	 2U 12-bay/3U 16-bay/4U 24-bay: Default DDR4 8GB, up to 192GB 4U 40-bay/4U 60-bay: Default DDR4 12GB, up to 192GB 4U 90-bay: Default DDR4 16GB, up to 192GB 				
Cache Memory	Redundant Controllers		Default DDR3 16GB, up to 32GB	Default DDR4 16GB, up to 128GB	 2U 12-bay/3U 16-bay/4U 24-bay: Default DDR4 16GB, up to 384GB 4U 40-bay/4U 60-bay: Default DDR4 24GB, up to 384GB 4U 90-bay: Default DDR4 32GB, up to 384GB 				
Supported Drives		 2.5" SAS SSD 2.5" 12Gb/s SAS 10,000 RPM HDD 3.5" 12Gb/s NL-SAS 7,200 RPM HDD 2.5" SATA SSD, 3.5" 6Gb/s SATA 7,200 RPM HDD (for single-controller models only) 2.5" U.2 NVMe SSD (for U.2 SSD cache models; must be purchased from Infortrend) 							
	Via Expansion En	closures,	·	ĺ	esite for the latest Compatibility Gu				
Max. Drive	per Appliance Via Scale-out with	Other	448	896	896	896			
Number	Series of Appliances, per Cluster		3136	3584	3584	3584			
Max. SSD Cache Pool (Block Level)			1TB	3.2TB	4TB	4TB			
Onboard 1GbE Po			8	8	0	0			
Onboard 25GbE F			0	0	4	0			
Onboard SAS Exp Max. Host Board	•		2 2	2	4	4			
Host Board Options			* 16Gb/s FC x 4 * 16Gb/s FC x 4 * 32Gb/s FC x 2 * 132Gb/s FC x 2 * 132Gb/s FC x 2 * 132Gb/s FC x 4 * 32Gb/s FC x 4 * 32Gb/s FC x 4 * 32Gb/s FC x 2 * 12Gb/s SAS x 2 * 10GbE (RJ45) x 4 * 10GbE (SFP+) x 2 * 10GbE (SFP+) x 2 * 10GbE (SFP+) x 2 * 12Gb/s SAS x 2						
			Note: 1. One 100GbE x 2 host board delivers a maximum throughput of 100Gb/s. 2. At least 24GB memory is required per controller to use 100GbE RDMA. 3. It is strongly recommended that you refer to the latest Host Board and Memory Guide on our website for complete information, including supported combinations and important notes, before purchasing any host board for your model.						
Max. 16Gb/s FC F			8 4	16 16	16 16	16 16			
Max. 1GbE Ports			8	16	0	0			
Max. 10GbE Ports (SFP+)			4	8	8	8			
Max. 25GbE Ports (SFP28)			0	8	16	16			
Max. 12Gb/s SAS Ports Expansion Enclosures (JBODs)			4 8 8 8 JB 3012A, JB 3016A, JB 3024BA, JB 3012A, JB 3016A, JB 3060L, JB 30		-				
Dimensions (Without Chassis Ears and Protrusions) (W x H x D)			JB 3025BA, JB 3060L, JB 3090 • 2U 12-bay: 449 x 88 x 500 mm • 3U 16-bay: 449 x 130 x 500 mm • 4U 24-bay: 449 x 174.4 x 500 mm		• 2U 12-bay: 449 x 88 x 509.8 mm • 3U 16-bay: 449 x 130 x 509.8 mm • 4U 24-bay: 449 x 174.6 x 509.8 mm • 4U 40-bay: 443.2 x 176 x 735.8 mm • 4U 60-bay: 443.2 x 176 x 849.8 mm • 4U 90-bay: 435 x 176 x 1088.8 mm				
Package Dimensions (W x H x D)			• 2U 12-bay: 588 x 379 x 780 mm • 4U 40-bay: 625 x 460 x 1032 mm • 4U 60-bay: 620 x 460 x 1140 mm • 4U 90-bay: 620 x 500 x 1400 mm • 2U 12-bay/3U 16-bay/4U 24-bay: 530W x 2 (80 PLUS Bronze)						
Power Supply Unit	Power Supplies (Redundant and Hot-swappable)	Global	460W x 2 (80 PLUS Bronze) • 4U 40-bay/4U 60-bay: 1200W x 2 (80 PLUS Plati • 4U 90-bay: 1600W x 2 (80 PLUS Titanium)						
		EU	2U 12-bay/3U 16-bay/4U 24-bay: 800W x 2 (80 PLUS Titanium) 4U 40-bay/4U 60-bay: 1300W x 2 (80 PLUS Platinum)						
		Global	• 2U 12-bay/3U 16-bay/4U 24-bay: 100-240VAC @10-5A • 4U 40-bay/4U 60-bay: 100-127VAC @10A, 200-240VAC @8A						
			• 2U 12-bay/3U 16-bay/4U 24-bay: 100-127VAC @10A, 200-240VAC @5A • 4U 90-bay: 100-127VAC @12A, 200-240VAC @10A • 4U 40-bay/4U 60-bay: 100-127VAC @10A, 200-240VAC @8.5A Note: Please use 200-240VAC for the 4U 40-bay, 4U 60-bay and 4U 90-bay models in both the global and EU versions.						
	AC Voltage	EU	• 4U 40-bay/4U 60-bay: 100-127\						
	AC Voltage Frequency	EU	• 4U 40-bay/4U 60-bay: 100-127\	for the 4U 40-bay, 4U 60-bay an					

Mix. Logis Time Cignary	SOFT	WARE SPECIFICA	TIONS			
Stapp bits 10 Kill 12 Kill 14 Kill 12 Kill 14 Kill 12 Kill 14 Ki	Max. Logical Drive Number		30			
Wite Paley Wite Dack or wite-Prough (per logical drive) Max. Poral Name 39 Max. Poral Name 39 Max. Volume Scot 2P3 Max. Volume Scot 2P3 Max. Volume Scot 498 Max. Post LUN Mapping Number 4998 Max. Roscol Initiation 416 (per contine) Max. Roscol Initiation 416 (per contine) RAD. O, RAD 1, RAD 3, RAD 56F, RAD 66F, RAD 0, RAD 30, RAD 50, RAD 50, RAD 60 RAD. O, RAD 1, RAD 3, RAD 56F, RAD 66F, RA	Max. Logical Drive Capacity		512TB			
Max. Pod Size	Stripe Size		16KB, 32KB, 64KB, 128KB, 256KB, 512KB, 1024KB (per logical drive)			
Max. Poul Number 100	Write Policy		Write-back or write-through (per logical drive)			
Max. Volume Size 2PB Max. Volume Number 4096 Max. Reserved Tag Number 286 (ver best. Und Nagping Number) Max. Reserved Tag Number 286 (ver best. Und Nagping Number) Max. Reserved Tag Number 286 (ver best. Und Commodisin) Max. Reserved Tag Number 416 (see controller) Max. Durber Stage CFL SSSA (see See See See See See See See See See	Max. Pool S	ize	2PB			
Max. Not. without	Max. Pool N	lumber	30			
Max Norther of Uniter of Conumerton Max Number of Respiration	Max. Volume	e Size	2PB			
Max. Reserved Tag Number 256 (per Host-LUN connection)	Max. Volume	e Number	1024			
Max. Host Cornection Number 2	Max. Host L	UN Mapping Number	4096			
Max. Host Certion Number 128 (per FC) RAID Cytion RAID O, RAID 1, RAID 3, RAID 58F, RAID 68F, RAID 10, RAID 30, RAID 50, RAID 60 Supported Protocol Fel. Level CIFSSMB (version 2/3/30), NFS (version 2/3/4), AFP (version 3.1.12), FTP/FXP (vsftp 2.3.4), WebDAV (fitted package 2.4.6) Molk Level FC, ISCSI, SAS Fel. Set Substance Max. Filt By System Size 28 B Max. Number of User Accounts 20000 Max. Number of User Accounts 2024 (NFSICIFS/FTP) [286 (AFP) Max. Number of Rayne Jobs 1024 Max. Number of Concurrent 404 (NFSICIFS/FTP) [286 (AFP) Many Number of Concurrent 2048 (NFSICIFS/FTP) [286 (AFP) Web-based Econome management software Silvings Resource Management to analyze history of resource usage will be factor authorized to long in mechanism Availability **Veb-based Econome management software Silvings Resource Management to analyze history of resource usage will be factor authorized interface for hypervisor management applications **Validability **Reliability **Inferration management software **Silvings Resource Management to analyze history of resource usage will be substanced interface for hypervisor management applications **Efficiency **Inferration Systems **Silvings Silvings Silvings Silvings Si	Max. Reserv	ved Tag Number	256 (per Host-LUN connection)			
RAID Cyptocots RAID C, RAID 1, RAID 3, RAID 56F, RAID 60F, RAID 10, RAID 30, RAID 50, RAID 50, RAID 60	Max. iSCSI	Initiators				
File Level CIFS/SMB (version 2.0/3.0), NFS (version 2/3/4), AFP (version 3.1.12), FTP/FXP (vsftp 2.3.4), WebDAV (httpd package 2.4.6)	Max. Host C	Connection Number	128 (per FC)			
Supported Protocol Block Level FC, ISCSI, SAS Object Level RESTIUI API Max File System Size 2PB Max Number of User Accounts 20000 Max Number of User Accounts 50000 Max Number of Shared Folders 2048 (NFSCIFS/FTP) [255 (AFP) Max Number of Concurrent Reynor Jobs 64 Max Number of Connections 2048 (NFSCIFS/AFP) [1024 (FTP) Management Reynor Processes 4 Veb-based EnonOne management software Processes - Integration with Microsoft Active Directory (AD) and Linux LDAP Veryor management software Processes Availability and Reliability - Veb-based EnonOne management software Processes control Processes - Integration with AES Availability and Reliability Reliability - Integration with AES - Integration with AES - Storage Resource Management to analyze history of resource usage Processes - Veb-based EnonOne management software Processes control Processes - Integration with AES - Storage Resource Management to analyze history of resource usage Processes Availability and Reliability Reliability - Integration with AES - Cache safe technology - UPS Availability and Reliability - Intime compression	RAID Option	าร				
Protection Pro		File Level				
Notification Project Level RESTful API PRIOR		Block Level	FC, iSCSI, SAS			
Max. Number of User Accounts Max. Number of User Groups 512	Protocois	Object Level	RESTful API			
File Level File Level File Level File Level File Level File Level File Symc Processes		Max. File System Size	2PB			
Hele Level Max. Number of Shared Folders 2048 (NFS/CIFS/FTP) 255 (AFP) 1024 1		Max. Number of User Accounts	20000			
Max. Number of Concurrent Raync Dobs 1024 Max. Number of Concurrent Raync Processes Max. Number of Connections 2048 (NFS/CIFS/AFP) 1024 (FTP) Web-based Eon/One management software 'Storage Resource Management to analyze history of resource usage 'Storage Resource Management to analyze history of resource usage 'Storage Resource Management to analyze history of resource usage 'Multi-factor authentication login mechanism 'Folder management 'Folder access control 'Storage Resource Management to analyze history of resource usage 'Multi-factor authentication login mechanism 'Folder management applications' 'File-level Color traiffic control) 'SMI-S standard interface for hypervisor management applications' 'Polder management applications' 'Polder management modules 'Device mapper 'Arithrius 'Trunk group 'UPS' 'Moff (file level only) 'SMB Multichannel' 'Trunk group 'Polder management application 'SMB Multichannel' 'SMB Multichannel		Max. Number of User Groups	512			
Max. Number of Rsync Jobs 1024 Max. Number of Concurrent Rsync Processes Max. Number of Concurrent Rsync Processes Max. Number of Connections 2048 (NFS/CIFS/AFP) 1024 (FTP)	5 7. 1	Max. Number of Shared Folders	2048 (NFS/CIFS/FTP) I 255 (AFP)			
Max. Number of Concurrent Rsync Processes Max. Number of Connections 2048 (NFS/CIFS/AFP) 1024 (FTP) **Web-based EonOne management software - User account management software - User account management - Folder access control - Folder encryption with AES **Availability and Reliability** **Initiation - Initiation Reliability** **Initiation Reliabi	File Level	Max. Number of Rsync Jobs				
Web-based EonOne management software User account management Storage Resource Management to analyze history of resource usage Multi-factor authentication login mechanism Folder management Folder encryption with AES Multi-factor authentication login mechanism Folder encryption with AES SMI-S standard interface for hypervisor management applications SMI-S standard interface for hypervisor management applications UPS WORM (file level only) SMI-S standard interface for hypervisor management applications UPS WORM (file level only) SMI-S Multichannel SMI-M Multichannel		Max. Number of Concurrent	64			
User account management Storage Resource Management to analyze history of resource usage Group management Folder access control Sulf-actor authentication login mechanism Folder management Folder access control Sulf-actor authentication login mechanism Folder management Folder access control Sulf-actor authentication login mechanism Folder derocryption with AES		Max. Number of Connections	2048 (NFS/CIFS/AFP) 1024 (FTP)			
Availability and Reliability Potes mapper - Device mapper - WORM (file level only) - SMB Multichannel Efficiency Inline compression Offline deduplication O	Management		User account management Group management Folder management - folder access control Quota management	 Storage Resource Management to analyze history of resource usage Multi-factor authentication login mechanism File-level QoS (network traffic control) 		
Notification • Email • SNMP traps • Anti-virus • Backup Server • Docker • Docker • Docker • LDAP Server • Mail Server • Nextcloud • Nextcloud EonCloud Gateway supports integration with the following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc. Note: For complete information about supported cloud providers, please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware, Citrix XenServer, OpenStack Cinder	Availability and Reliability		Hot-swappable hardware modules Device mapper Antivirus	UPS WORM (file level only)		
Applications - Anti-virus - Backup Server - Backup Server - Docker - LDAP Server - LDAP Server - Mail Server - Mail Server - Nextcloud - Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc. - Note: For complete information about supported cloud providers; please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud - Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware, Citrix XenServer, OpenStack Cinder	Efficiency		Inline compression	Offline deduplication		
Applications • Backup Server • Docker • Docker • LDAP Server • Mail Server • Mail Server • Nextcloud EonCloud Gateway supports integration with the following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc. Note: For complete information about supported cloud providers, please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware, Citrix XenServer, OpenStack Cinder	Notification		• Email	SNMP traps		
Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc. Note: For complete information about supported cloud providers, please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware, Citrix XenServer, OpenStack Cinder	Applications		Backup Server Docker LDAP Server Mail Server	Proxy ServerSyslog ServerVPN Server		
Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware, Citrix XenServer, OpenStack Cinder	Supported Cloud Services		Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc. Note: For complete information about supported cloud providers, please refer to EonCloud Gateway webpage			
	Supported OS		Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware, Citrix XenServer,			
			Note: For supported OS versions, please refer to the Compatibility Guide.			

Thin Provisioning Block Level		Default	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.			
	Jilly	File Level	Optional	Snapshot images per folder: 1024		
Local Replication	Spanshot	The Level	Default			
	Snapshot	Block Level		Snapshot images per source volume: 64 Snapshot images per system: 128		
			Optional Default	Snapshot images per source volume: 256 Snapshot images per system: 4096		
	Volume Cop	Volume Copy/Mirror		Replication pairs per source volume: 4 Replication pairs per system: 16		
				Replication pairs per source volume: 8 Replication pairs per system: 256		
		File Level	Default	Support Rsync with 128-bit SSH encryption		
Remote Replication		Block Lovel	Optional	Replication pairs per source volume: 8 Replication pairs per system: 64		
		Block Level		Note: The maximum number of replication pairs per source volume is 8, whether they are remote asynchronous pairs, remote synchronous pairs, or local volume pairs		
Automated S	Storage Tierin	g	Optional	Storage tiers per pool: 4		
		File Level	Default	Appliances per cluster: 1		
Scale-out		File Level	Optional	Appliances per cluster: 4		
		Block Level	Default	Appliances per cluster: 4		
		File Level	Optional	Delivering continuous availability and eliminating downtime for mission-critical workloads that require non-stop operations		
HA Service		Block Level		Note: HA service is available on GS 3000/4000 G3 only.		
		File Level	Optional	Accelerating file operations and data access performance for both read and write Max. SSD number: 8		
			Optional	Accelerating data access in random read-intensive environments (e.g. OLTP) Max. SSD number: 4		
				Recommended DIMM capacity per controller for SSD Cache pool for GS 1000 Gen2 \ GS 2000		
				DRAM : 8GB Max SSD cache pool size : 0.4TB		
				DRAM : 16GB Max SSD cache pool size : 0.6TB		
				DRAM : 32GB Max SSD cache pool size : 1TB		
				DRAM : 64GB Max SSD cache pool size : 1.6TB		
SSD Cache		Plack Laval		DRAM : 128GB and up Max SSD cache pool size : 3.2TB		
		Block Level		Recommended DIMM capacity per controller for SSD Cache pool for GS 3000/4000 G3		
				DRAM : 8GB Max SSD cache pool size : 0.5TB		
				DRAM : 12GB Max SSD cache pool size : 0.75TB		
				DRAM : 16GB Max SSD cache pool size : 1TB		
				DRAM : 24GB Max SSD cache pool size : 1.5TB		
				DRAM : 32GB Max SSD cache pool size : 2TB		
				DRAM : 48GB Max SSD cache pool size : 3TB		
				DRAM : 64GB and up Max SSD cache pool size : 4TB		

WARRAI	NTY AND SERV	ICE CONTRACTOR OF THE PROPERTY	
	Standard Service	3-year limited hardware warranty and 8 x 5 phone, web, and email support (batteries are covered under warranty for 2 years	
Service and Support	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: phone, web, and email support + onsite diagnostics on the next business day • Premium service: 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	

Asia Pacific (Taipei, Taiwan) Infortrend Technology, Inc. Tel: +886-2-2226-0126 E-mail: sales.ap@infortrend.com

China (Beijing, China) Infortrend Technology, Ltd. Tel: +86-10-6310-6168 E-mail: sales.cn@infortrend.com

Japan (Tokyo, Japan) Infortrend Japan, Inc. Tel: +81-3-5730-6551 E-mail: sales.jp@infortrend.com Americas (Sunnyvale, CA, USA) Infortrend Corporation Tel: +1-408-988-5088 E-mail: sales.us@infortrend.com

EMEA (Düsseldorf, Germany) Infortrend Technology, Inc. E-mail: sales.de@infortrend.com



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