

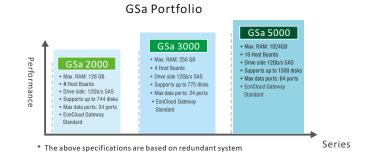
HIGHLIGHTS

- Powerful unified storage performace and supports both block and file-level applications
- Optmized SSD performance with low latency that can handle more than 700K IOPS for random reads with response time of less than 0.5 milliseconds
- High availability with redundancy achieved by no single point of failure technology (redundant controller hardware)
- EonOne an easy to use interface for storage management and offers webbased management interface
- EonCloud gateway ready for futureproof expansion
- Rich selections of host interfaces: FC 16Gb/s, FC 8Gb/s, iSCSI 40Gb/s, iSCSI 1Gb/s, iSCSI 10Gb/s, InfiniBand 56Gb/s and SAS 12Gb/s
- Cache Backup Module (CBM) with backup power to store cache data to flash module and prevent potential data loss
- Modular design lowers maintenance complexity of the power supplies, fans, controllers and host boards

Introduction

EonStor GSa all flash unified storage is designed for enterprise to speed-up workloads with wider range of product selections in terms of performance, connectivity, and form factor choices to fit any budget constraints. Coupling with Infortrend's powerful unified storage performance, high availability design, and future-proof EonCloud gateway features, EonStor GSa family can be your best choice to modernize your data center in all aspects.

EonStor GSa family inherited company's GS line of superior unified storage performance and available in 3 series. EonStor GSa 2000 and 3000 series are the cost-performance solutions. GSa 5000 series, on the other hand, offers the highest performance all flash technology designed for extreme I/O workloads.



It also offers high availability in all aspects. Its redundant controller hardware design supports SAS/SATA bridge board for compatibility with cost-effective SATA SSDs. Its firmware is embedded with Intelligent Drive Recovery (IDR) technology as well as the SSD lifespan monitoring features to ensure data availability. In addition, GSa provides optional EonCloud gateway that connects to cloud services such as Amazon S3, Microsoft Azure, OpenStack Swift, and Alibaba Cloud for future-proof support of capacity expansion or remote-backup application to the cloud.

These AFAs are for high performance enterprise applications such as database, virtualization, VDI, Microsoft Exchange, media/entertainment-related applications.





PHYS	ICAL SPECIFICATIO	NS	EonStor (GSa Family				
Specifications (per system)		GSa 2024 GSa 2024T ^{*1}	GSa 3025 GSa 3025T ^{*1}	GSa 5100	GSa 5200			
orm factor		2U 24-bay	2U 25-bay	4U (No internal bay. Exp	ansion enclosure required.)			
ontroller		Dual-redundant or Single	is upgradable to redundant	Dual-redundant	Dual-redundant			
lax drives		744 (with expansion board)	775 (with expansion board)	1500	1500			
ache backuj	p techniques	Super capacitor + Flash module	Super capacitor + Flash module	BBU + Flash module	BBU + Flash module			
	Power supplies (Redundant/hot swappable)	460W x 2 (80 PLUS Bronze)	530W x 2 (80 PLUS Bronze)	1200W x2 (80 PLUS Platinum)	1200W x2 (80 PLUS Platinum)			
ower supply	(with PFC (auto-switching))	100VAC @ 8A to 240VAC @ 4A	100VAC @ 10A to 240VAC @ 5A		A, 200-240VAC @ 7.08A			
	Frequency	50-60Hz Note: Power is also supplied in redunda	47 - 63Hz nt mode, allowing full operation with half th	47 - 63Hz	47 - 63Hz			
PU		2x Intel Broadwell-DE (Pentium) GS 2000/GS 2000T: 2 Core/4 Core	2x Intel Broadwell-DE (Xeon) GS 3000/GS 3000T: 4 Core/6 Core	2 x Intel Xeon E5 8 core	4 x Intel Xeon E5 8 core			
ache memoi	ry	Default DDR4 16GB Up to 32GB, 64GB, 128GB	Default DDR4 16GB Up to 32GB, 64GB, 128GB, 256B	Default DDR4 32GB Up to 64GB, 128GB, 256GB, 512GB	Default DDR4 64GB Up to 128GB, 256GB, 512GB, 1024G			
lax. number	of host board	4	4	4	16			
nboard SAS	expansion ports	2 x 12Gb/s SAS wide ports	4 x 12Gb/s SAS wide ports	0	0			
		2	2	4 (Default included)	4 (Default included)			
Expansion board			Gb/s SAS ports only connectable with expa on board can only be installed in the HB2 slot	nsion enclosures. For GSa 5000, the expansion board can only be installed in slot HB9 and HB10.				
	SI ports (10Gb RJ-45)	0	4	0	0			
nboard iSCS	GI ports (1Gb RJ-45)	8	4	0	0			
Host board ports		4 x 166b/s FC ports (No Remote Replication support) 4 x 10b/s iSCSI ports 2 x 106b/s iSCSI ports (SFP+) 2 x 106b/s iSCSI ports (SFP+) 2 x 106b/s iSCSI ports (SFP8) 2 x 256b/s iSCSI ports (GFP8) 2 x 406b/s iSCSI ports (QSFP) 2 x 566b/s InfiniBand ports (for Linux only, block level only) 2 x 126b/s SAS ports Converged host board: -4 x 86b/s FC ports -2 x 166b/s FC ports -4 x 106b/s FCoE ports -4 x 106b/s iSCSI ports (SFP+) Note: 1. The two controllers must have i	4 x 166b/s FC ports (No Remote Replication support) 4 x 1Gb/s iSCSI ports 2 x 10Gb/s iSCSI ports (SFP+) 2 x 10Gb/s iSCSI ports (SFP+) 2 x 10Gb/s iSCSI ports (SFP28) 2 x 25Gb/s iSCSI ports (SFP28) 2 x 40Gb/s iSCSI ports (GSFP) 2 x 56Gb/s InfiniBand ports (for Linux only, block level only) 2 x 12Gb/s SAS ports Converged host board: 4 x 8Gb/s FC ports - 2 x 16Gb/s FC ports - 4 x 10Gb/s iSCSI ports (SFP+) dentical slot settings.	4 × 16Gb/s FC ports (No Remote Replication support) 4 × 1Gb/s ISCSI ports 2 × 10Gb/s ISCSI ports (RJ-45) 2 × 40Gb/s ISCSI ports (QSFP) 2 × 56Gb/s InfiniBand ports (for Linux only, block level only) 2 × 12Gb/s SAS ports Converged host board: - 4 × 8Gb/s FC ports - 2 × 16Gb/s FC ports - 4 × 10Gb/s FC ports - 4 × 10Gb/s FCOE ports - 4 × 10Gb/s ISCSI ports (SFP+)	4 x 16Gb/s FC ports (No Remote Replication support) 4 x 1Gb/s iSCSI ports 2 x 10Gb/s iSCSI ports (RJ-45) 2 x 40Gb/s iSCSI ports (QSFP) 2 x 56Gb/s InfiniBand ports (for Linux only, block level only) 2 x 12Gb/s SAS ports Converged host board: - 4 x 8Gb/s FC ports - 2 x 16Gb/s FC ports - 4 x 10Gb/s FC ports - 4 x 10Gb/s FCSE ports - 4 x 10Gb/s FSE ports			
		Fibre channel supports point-to		host boards should be installed in HB1~8.				
ost board +	onboard ports (max.)	24	24	16	64			
lax. 8Gb/s F0	C ports	16	16	16	64			
lax. 16Gb/s l	FC ports	16	16	16	64			
lax. 10 GbE F	FCoE ports	16	16	16	64			
lax. 1 GbE/iS	SCSI ports	24	20	16	64			
lax. 10 GbE/	iSCSI (SFP+) ports	16	16	16	64			
	iSCSI (RJ-45) ports	8	12	8	32			
ax. 25 GbE/	iSCSI (SFP28) ports	8	8	0	0			
ax. 40 GbE/	iSCSI (QSFP) ports	8	8	8	32			
ax. 56Gb/s	InfiniBand ports	8	8	8	32			
ax. 12Gb/s	SAS ports	8	8	8	32			
ax. number	of logical drives			32				
-	Irive capacity	512TB						
onfigurable :	·	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive						
onfigurable		Write-Back or Write-Through per logical drive. This policy can be modified.						
lax. size of p		2РВ						
lax. number		32						
	of volumes (per pool/ per system)	1024						
	of LUNs mappable	4000						
	size gs reserved for each Host-LUN			PB o 256				
onnection	tistara (par captrollar)			32				
	tiators (per controller)			28				
	st connection (per FC)							
	Max. file system size	2PB						
	Max. number of user accounts Max. number of user groups	20000 512						
i	Max. number of folder sharing			/FTP) 255(AFP)				
ie Levei -	Max. number of rsync jobs)24				
	Max. number of rsync concurrent pr	rocesses		54				
	Max. number concurrent connection							
	controller (NFS/CIFS/AFP/FTP)	•	• 32 GB memory: 512	• 128 GB memory: 2048				
RAID options			rsion 2.0/3.0, NFS: Version 2/3/4, AFP,	5, 5, 6, 10, 30, 50, 60 FTP, FXP, WebDAV				
Protocol supp	oort	Block Level Protocol	SI, SAS, InfiniBand ift					
onCloud Gat	•	Support the integration with following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack • 80 PLUS power supplies delivering more than 80% energy efficiency						
Green design		 Intelligent multi-level drive spin-dowr Electromagnetic Compatibility: CE, B 	1					

UInfortrend®

PHYSICAL SPECIFICATION	ONS	EonStor GSa Family				
	GSa 2024(T)	GSa 3025(T)	GSa 5100/5200			
Form Factor	2U 24-bay	2U 25-bay	4U(No internal bay. Expansion enclosure required.)			
Available models	GSa 2024RC/SC GSa 2024RTC/STC	GSa 3025RC/SC GSa 3025RTC/STC	GSa 5100RL GSa 5200RL			
	Note: \$: Single controller(upgradable to dual controller)	R: Redundant controller T: High performance	C: Super capacitor L: BBU			
Supported drives	• 2.5" SAS SSDs • 2.5" SATA SSDs	• 2.5" SAS SSDs • 2.5" SATA SSDs	2.5" SAS SSDs2.5" SATA SSDs			
	Note: For the latest compatibility details, refer to our official website for the latest EonStor GSa Compatibility Matrix.					
Max. drives number	744	775	1500			
Rack Support	2U, 19-inch rackmount	2U, 19-inch rackmount	4U, 19-inch rackmount			
Dimensions (Without chassis ears/ protrusions)	447(W)x88(H)x500(D)mm	447(W)x88(H)x500(D)mm	447 (W)x175 (H)x577mm (D)			
Package Dimensions	780(W)x338(H)x588(D)mm	780(W)x340(H)x588(D)mm	591(W)x295(H)x800mm (D)			
Expansion enclosure(JBOD)	JB 3024BA	JB 3025BA	JB3025BA			

SOFTWARE SPECIFICA		EonStor GSa Family							
		Dat	a Service						
	Snapshot	Snapshot images per sou Snapshot images per sys		me Standard License: 64 / Advanced Licen Standard License: 128 / Advanced Lice					
Local Replication	Volume Copy/Mirror	Replication pairs per source volume Standard License: 4 / Advanced License							
	Note: Standard license is included by default and advanced is an optional license								
Thin Provisioning (default included)	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space								
Remote Replication(Block level)	Replication pairs per source volume: 8 Replication pairs per system: 64								
	Note: 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 12	28-bit SSH encryption							
EonCloud Gateway	File-level 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 clouod. Block-level 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	Versio	n				
Feature	EonCloud	Gateway Standard	EonC	Cloud Gatev	vay Enterprise	EonCloud Gate	way Ultimate		
Models applied		All Models (Si	tandard) can be u	ipgraded to	EonCloud Enterprise or U	Itimate version			
Cloud folder sync/cache		٧		٧		V			
Max. cache settings	5 (9	O days trial)		5		10)		
Cache policy and function parameters	(90 da) Default(LRU) Low priority High priority Uncacheable for Uncacheable for		cate	Low p High p	lt(LRU) riority riority ys trial for others	Default(LRU) Low priority High priority Uncacheable for read Uncacheable for write	No applicable Local only Prepopulated Sequentially-preallocat		
Cloud volume cache	(90	(90 days trial)		V		V			
Cloud volume backup	(90	days trial)		V		V			
Cloud volume tier	(90	days trial)		V		V			
Max. connected folder		5		5		32			
Max. connected volume		5		5		32			
Cloud folder cache size		≦ 1TB		≦ 2PB		≦ 2PB			
Cloud volume capacity		≦ 1TB		≦ 21			PB		
		Servic	e & Suppo	ort					
Access right management	User account managQuota management		ement ith Window® AD an	d LDAP	• Folder management - fo • Folder encryption with A				
Availability and reliability	 Redundant, hot-swa Trunk group support 	ppable hardware modules	Device mappe CacheSafe tec	r support chnology	Multi-pathing supportUPS	Antivirus WORM(For file level on	y)		
Management	 Module status LED in Storage Resource M 	management software ish and caching mode opera ndicators: component prese anagement to analyze histo e management tasks by flexi	ence detection & th ry records of resou	ermal senso	ors via I2C bus				
Notification	Email, SNMP traps								
Applications	• File explorer • Prox	y server • Syslog server	• VPN server •	SyncCloud	• LDAP server				
OS support	Red Hat Enterprise Lin	ux, SUSE Linux Enterprise,	Sun Solaris, Mac O	S X, VMwar	' SP1 / Windows 8.1, Micros e, Citrix XenServer, OpenSta	ck Cinder			
	Standard service	3-year limited	hardware warranty	and 8x5 ph	one, web, and email suppor	t (Batteries are covered u	nder warranty for 2 year		
Service and support	Upgrade/extension options	Advanced serv Premium servi	/ice: 24x7 phone, v	veb, and em eb, and ema	ess day (up to 5 years) ail support + onsite diagnos til support + onsite diagnos				
	Infortrend Service Cer	iter Request Supp	ort, Knowledge Bas	se, Downloa	d Center, Licensing Service,	and News			

Asia Pacific (Taipei, Taiwan) Infortrend Technology, Inc. Tel:+886-2-2226-0126 E-mail: sales.tw@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 (Basingstoke, UK) Infortrend Europe Ltd. Tel:+44-1256-305-220 E-mail: sales.eu@infortrend.com

