

## **Hightlight**

- 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 web-based management interface.
- EonCloud gateway ready for future-proof expansion.
- · Rich selections of host interfaces: FC 32Gb/s, 16Gb/s, iSCSI 40GbE, 25GbE, 10GbE, 1GbE and 12Gb/s SAS.
- 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.

## GSa Portfolio GSa 5000 GSa 3000 Max. RAM: 1024GB GSa 2000 • 16 Host Boards • Max. RAM: 256 GB Performance • Drive side 12Gb/s SAS • 4 Host Boards • Max. RAM: 128 GB · Supports up to 1500 disks · Drive side 12Gb/s SAS · 4 Host Boards Max data ports: 64 ports · Supports up to 775 disks · Drive side: 12Gb/s SAS · EonCloud Gateway Standard · Max data ports: 24 ports Supports up to 744 disks · EonCloud Gateway Standard Max data ports: 24 ports EonCloud Gateway Standard Series

The above specifications are based on redundant system

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, etc. 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.



Product Series		GSa 2000	GSa 3000 Gen1	GSa 5100	GSa 5200	
	2U 24-bay	GSa 2024 <b>R/S</b> GSa 2024 <b>RT/ST</b>	-			
Form Factor	2U 25-bay	-	GSa 3025 <b>R/S</b> GSa 3025 <b>RT/ST</b>	-	-	
	4U	-	-	GSa 5100 <b>R</b>	GSa 5200 <b>R</b>	
			gle controller(upgradable to dual controller) expansion enclosure required.	roller) <b>R</b> : Redundant controller <b>C</b> : Su	per capacitor <b>L</b> : BBU( for GS 5000	
Controller			single upgradable to redundant	Dual-redundant		
Cache Backup Techniques		Super capacitor+Flash module (only for upgradable single contr	oller and dual controller models)	BBU+Flash module		
CPU		Intel® Pentium® 2 or 4 core	Intel® Xeon® D 4 or 6 Core	Intel® Xeon® E5 8 Core		
Cache Memory		Default DDR4 16GB Expandable up to 128GB	Default DDR4 16B Expandable up to 256GB	Default DDR4 16GB Expandable up to 512GB	Default DDR4 32GB Expandable up to 1024GB	
Supported Drives		Bundle SSD				
Max. Drives Number (	with expansion board)	744	775	750	750	
Max. SSD Cache Pool		3.2TB	3.2TB	3.2TB	3.2TB	
Max. Onboard SAS Expansion Ports		2	4	8	8	
Max.Onboard 1GbE po	orts	8	4	0	0	
Max. Onboard 10GbE ports (RJ-45)		0	4	0	0	
Max. Host Board Slots		4	4	4	16	
Max. Expansion Board		2	2	4 (Default included) 4 (Default included) 12Gb/s SAS x 2 ports only connectable with expansion enclosures.		
Host Board Options		10GbE (F 25GbE (S 40GbE (C 12Gb/s S Note: 1. The two controllers must ha 2. Fibre channel supports poi	GFP + ) x 2 RJ-45) x 2 SFP28) x 2 SFP29) x 2 SFSP + ) x 2 SFS x 2 SFAS x 2 Int-to-point and switch mode.	16Gb/s FC x 4 32Gb/s FC x 4 10GbE (RJ-45) x 2 40GbE (QSFP+) x 2 12Gb/s SAS x 2		
Max. 16Gb/s FC Ports		3. For GSa 5100, the host boa	ards should be installed in HB7~8. For	GSa 5200, the host boards should 16	be installed in HB1~8.	
Max. 32Gb/s FC Ports		8	8	8	32	
Max. 1 GbE Ports		24	20	0	0	
Max. 10GbE Ports (R.	J-45)	8	12	8	32	
Max. 10GbE Ports (SFP+)		8	8	0	0	
Max. 40GbE Ports ( QSFP+)		8	8	8	32	
Max. 12Gb/s SAS Ports		10	12	16	40	
Expansion Enclosure (JBOD)		JB 3024BA	JB 3025BA	JB 3025BA		
Dimensions (without chassis ears/ protrusions) (W x H x D)		449 x 88 x 500 mm	449 x 88 x 500 mm	449 x 175.3 x 547.7 mm		
Package Dimensions (W x H x D)		780 x 338 x 588 mm	780 x 340 x 588 mm	591 x 295 x 800 mm		
	Power Supplies (Redundant/hot-swappable)	460W x 2 (80 PLUS Bronze)	530W x 2 (80 PLUS Bronze) 1200W x 2 (80 PLUS Platinum)		PLUS Platinum)	
Power Supply Unit (with fan module)	AC Voltage (with PFC(auto-switching))	100VAC @8A to 240VAC @4A	100VAC @10A to 240VAC @5A 100-127VAC @12.47A, 200-240VAC @7.08A			
	Frequency	50-60 Hz 47-63Hz				
Safety Standard		Note: Power is also supplied in redundant mode, allowing full operation with half the resources.  • Electromagnetic Compatibility: CE, BSMI, FCC • Safety: UL, BSMI, CB				

	SPECIFICATIONS					
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. This policy can be modified.				
Max. Pool Size		2PB				
Max. Pool Number		32				
Max. Volume Size		2PB				
Max. Volume Number (per pool/per system)		1024				
Max. Host LUN Mapping Number		4096				
ax. Reserved Tag Nu	mber per Host-LUN Connection	Up to 256				
Max. iSCSI Initiators (per controller)		832				
lax. Host Connection	Number (per FC)	128				
AID Options		RAID 0, RAID 1, RAID 3, RAID 5, RAID 6, RAID 10, RAID 30, RAID 50, RAID 60				
	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)				
otocol Support	Block Level Protocol	FC, iSCSI, SAS				
	Object Level Protocol	RESTful API				
	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)				
le Level	Max. Number of Rsync Jobs	1024				
	Max. Number of Rsync Concurrent Processes	64				
	Max. Number of Concurrent Connections (NFS/CIFS/AFP/FTP)	<ul><li>16 GB memory: 200</li><li>32 GB memory: 512</li><li>64 GB memory: 1024</li><li>128 GB memory: 2048</li></ul>				
Management		User account management     Group management     Folder management - folder access co     Quota management	ntrol	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		Redundant, hot-swappable hardware n     Device mapper support     Antivirus     Trunk group support	nodules	Cache Safe technology UPS WORM (For file level only) SMB Multichannel		
Notification		Email, SNMP traps				
Applications		<ul> <li>File explorer</li> <li>Proxy server</li> <li>Syslog server</li> <li>VPN server</li> </ul>		LDAP serve     Docker		
Cloud Feature		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				
OS Support		Microsoft Windows Server 2019/2016/2012R2/2012/2008R2/2008, Windows 7 SP1, Windows 8.1, Microsoft Windows Hyper-V, Ret Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware, Citrix XenServer, OpenStack Cinder  Note: For OS version support, please refer to the compatibility matrix				

DATA SERVIC	CE			
Self-encrypting Drives		Unique factory encryption secures data plus makes deletion simple and complete		
Thin Provisioning (Block-Level) (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	Standard License: 64 / Advanced License: 256	
		Snapshot images per pool	Standard License: 128 / Advanced License: 4096	
	Volume Copy/Mirror	Replication pairs per source volume	Standard License: 4 / Advanced License: 8	
		Replication pairs per system	Standard License: 16 / Advanced License: 256	
		Note: Standard license is included by def	fault and advanced is an optional license	
Remote Replication (Block level)(optional)		Replication pairs per source volume: 8		
		Replication pairs per system: 64		
		Note: 1. The maximum number of replication pair per source volume is up to 8, regardless of remote asynchronous/remote synchronous/local volume pairs 2. 4 x 16Gb FC and 2/4 x 32Gb FC host boards do not support Remote Replication		
Remote Replication(File Level)		Support Rsync with 128-bit SSH encryption		
		2 or 4 storage tiers based on drive types		
Automated Storage Tiering (optional)		SSD supports		
		Automated data migration with scheduling options		
		Accelerating data access for random read-intensive environments, such as OLTP		
SSD Cache(optional)		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					
	Standard Service	3-year limited hardware warranty and 8x5 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: 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  Note: Options may vary by region. For more details, please contact our sales representatives.			
	Infortrend Technical Support	FAQ, Download Center, Licensing Service, Service Request			

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