



EonStor GSa Family

Wide-ranging all-flash array choices for modernized data center



Highlight

- Optimized SSD Performance with Low Latency.
- Onboard 4 x 10GbE (optical) ports provide more high-speed IO connections.
- EonOne-an Easy-to-use Interface for Storage Management.
- Cloud Ready for Future-Proof Expansion.
- Rich Selections of Host Interfaces.
- Cache Backup Module (CBM) to Prevent Data Loss.
- Modular Design to Lower Maintenance Complexity.

Introduction

EonStor GSa storage family (GSa) is an all-flash array product family designed to deliver optimal SSD performance with low latency and extensive lifespan. Accelerate your most demanding workloads such as databases, virtualization, VDI, Microsoft Exchange mail server, and Media & Entertainment related applications.

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 drive endurance.

GSa supports standard EonCloud Gateway and enterprise can according to demand to upgrade license. EonCloud Gateway connect with Amazon S3, Microsoft Azure, OpenStack Swift, Alibaba Cloud, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud etc., for future-proof support of capacity expansion or remote-backup to the cloud.

GSa provides reliable super capacitor backup unit with M.2 flash module to ensure data safety during power failure. Cache Backup Module will kick-in and use the backup power to store cache data to flash module and prevent potential data loss.

GSa family is screw-less tray design to simplify disk installation, modular field replacement units provide hassle-free and easy maintenance. It supports powers, fans, controllers, host boards, and other storage components.

PHYSICAL SPECIFICATIONS

Product Series		GSa 2000	GSa 3000 Gen2	GSa 4000 Gen2
Form Factor & Available Model	2U 24-bay	GSa 2024R/S GSa 2024RT/ST	-	-
	2U 25-bay	-	GSa 3025R2C/S2C	GSa 4025R2C/S2C
Note: T: High performance S: Upgradable single controller R: Redundant controller 2: Gen2 C: Super capacitor				
Controller	Redundant or Upgradable single controller			
Cache Backup Techniques	Super capacitor+Flash module			
CPU	Intel® Pentium® 2 or 4 core	Intel® Xeon® 4 Core	Intel® Xeon® 8 Core	
Cache Memory (per system)	Default DDR4 16GB Expandable up to 128GB		Default DDR4 16GB Expandable up to 512GB	
Supported Drives	Bundle SSD			
Max. Drives Number (with expansion board)	744		896	
Max. SSD Cache Pool	3.2TB		4TB	
Onboard SAS Expansion Ports	2		4	
Onboard 10 GbE Ports (SFP+)	0		8	
Max. Host Board Slots	4		4	
Max. Expansion Board	2		2	
	Note: The expansion board can only be installed in the HB2 slot and has 2 x 12Gb/s SAS ports only connectable with expansion enclosures.			
Host Board Options	16Gb/s FC x 4 32Gb/s FC x 2 1GbE (RJ-45) x 4 10GbE (SFP+) x 2 10GbE (RJ-45) x 2 25GbE (SFP28) x 2 40GbE (QSFP+) x 2 12Gb/s SAS x 2		16Gb/s FC x 4 32Gb/s FC x 2 32Gb/s FC x 4 10GbE (SFP+) x 2 10GbE (RJ-45) x 2 25GbE (SFP28) x 2 40GbE (QSFP+) x 2 12Gb/s SAS x 2	
	Note: 1. The two controllers must have identical slot settings. 2. Fibre channel supports point-to-point and switch mode.			
Max. 16Gb/s FC Ports	16		16	
Max. 32Gb/s FC Ports	8		16	
Max. 1 GbE Ports	24		0	
Max. 10GbE Ports (RJ-45)	8		8	
Max. 10GbE Ports (SFP+)	8		16	
Max. 25GbE Ports (SFP28)	8		8	
Max. 40GbE Ports (QSFP+)	8		8	
Max. 12Gb/s SAS Ports	10		12	
Expansion Enclosure (JBOD)	JB 3024BA		JB 3012A, JB 3016A, JB 3025BA, JB 3060L	
Dimensions (without chassis ears/ protrusions) (W x H x D)	449 x 88 x 500 mm			
Package Dimensions (W x H x D)	780 x 338 x 588 mm			
Power Supply Unit (with fan module)	Power Supplies (Redundant/hot-swappable)	460W x 2 (80 PLUS Bronze)	530W x2 (80 PLUS Bronze)	
	AC Voltage (with PFC(auto-switching))	100VAC @ 8A to 240VAC @ 4A	100VAC @10A to 240VAC @5A	
	Frequency	50-60 Hz	47-63 Hz	
Note: Power is also supplied in redundant mode, allowing full operation with half the resources.				
Safety Standard	<ul style="list-style-type: none"> Electromagnetic Compatibility: CE, BSMI, FCC Safety: UL, BSMI, CB 			

SOFTWARE 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		
Max. Reserved Tag Number per Host-LUN Connection	Up to 256		
Max. iSCSI Initiators (per controller)	832		
Max. Host Connection Number (per FC)	128		
RAID Options	RAID 0, RAID 1, RAID 3, RAID 5, RAID 6, RAID 10, RAID 30, RAID 50, RAID 60		
Protocol Support	File Level Protocol	CIFS/SMB (Version 2.0/3.0), NFS (Version 2/3/4), AFP (Version 3.1.12), FTP/FXP (vsftpd 2.3.4), WebDAV (httpd package 2.4.6)	
	Block Level Protocol	FC, iSCSI, SAS	
	Object Level Protocol	RESTful API	
File Level	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)	
	Max. Number of Rsync Jobs	1024	
	Max. Number of Rsync Concurrent Processes	64	
	Max. Number of Concurrent Connections (NFS/CIFS/AFP/FTP)	<ul style="list-style-type: none"> • 16 GB memory: 200 • 32 GB memory: 512 • 64 GB memory: 1024 • 128 GB memory: 2048 	
Management	<ul style="list-style-type: none"> • User account management • Group management • Folder management - folder access control • Quota management 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Redundant, hot-swappable hardware modules • Device mapper support • Antivirus • Trunk group support 	<ul style="list-style-type: none"> • Cache Safe technology • UPS • WORM (For file level only) • SMB Multichannel 	
Notification	<ul style="list-style-type: none"> • Email 	<ul style="list-style-type: none"> • SNMP traps 	
Applications	<ul style="list-style-type: none"> • File explorer • Proxy server 	<ul style="list-style-type: none"> • Syslog server • VPN server 	<ul style="list-style-type: none"> • LDAP serve • Docker
Cloud Feature	<p>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.</p> <p>For complete information about cloud provides support, please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud</p>		
OS Support	<p>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</p> <p>Note: For OS version support, please refer to the compatibility matrix.</p>		

DATA SERVICE

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 default 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
Automated Storage Tiering (optional)	2 or 4 storage tiers based on drive types
	SSD supports
	Automated data migration with scheduling options
SSD Cache(optional)	Accelerating data access for random read-intensive environments, such as OLTP
	Supports up to four SSDs per controller
	Recommended DIMM capacity per controller for SSD Cache pool for G5a 2000
	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
	Recommended DIMM capacity per controller for SSD Cache pool for G5a 3000/4000 Gen2
	DRAM:8GB Max SSD Cache Pool Size: 500GB
	DRAM:16GB Max SSD Cache Pool Size: 1,000GB
	DRAM:32GB Max SSD Cache Pool Size: 2,000GB
	DRAM:64GB and up Max SSD Cache Pool Size: 4,000GB

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.
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

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