

Data Sheet FUJITSU Storage ETERNUS AF250 S3 All-Flash Array

Storage Unchained



ETERNUS AF Storage

FUJITSU Storage ETERNUS AF series are incredibly fast and flexible all-flash storage systems for the next-generation data center. At an affordable price point, it makes flash the new normal for all tier-1 applications in enterprise IT. Response times are ultra-low – in fact, they set performance records. The ETERNUS AF is also built to be smart, with easily configurable automated quality of service to ensure each app gets the performance it needs, plus flexible environments - without requiring any complicated deduplication and compression that can be turned on when required - and off when not. It keeps data safe with full-fledged DR with mirroring and automated transparent failover.

ETERNUS AF250 S3

The Fujitsu Storage ETERNUS AF250 S3 is the ideal choice for application scenarios with demanding data and performance requirements. The system delivers impressive IOPS performance with lowest latency even at full load. Thus it offers a solution that resolves all performance issues in critical applications - such as real-time business analytics or VDI tuning. It also fits best as general purpose storage for all Tier-1 applications in small and mid-sized companies.



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Features & Benefits

Main Features	Benefits
Based on ETERNUS DX standard architecture	
	Performance optimized design
	Proven and mature technology
	System availability of 99.9999%
	 Common management across all-flash and hybrid ETERNUS storage systems
Flexible and flash optimized storage	
	Ultra-low response times for all applications
	Massive increase of IOPS
	No complicated tuning measures required
	■ Scalable in capacity and connectivity
Selective use of deduplication / compression	■ Decide on volume label whether to use it or not
	Cost reduction for flash
	■ Increased lifespan of flash
Automated Quality-of-Service	- increased incopan of hash
Automated addity of Service	Control of applications priorities according to business needs.
	 Automation of monitoring and adjustment
	Minimization of admin efforts
	■ Guaranteed service levels
Storage Cluster Option/Transparent failover	
	Avoid planned or unplanned downtimes
	Enjoy 100% data insurance and non-stop operations
Convincing access performance and latency	
Random access performance: Up to 600,000 IOPS (8 KB Blocks)	 Sufficient performance for all applications requiring high data rates
Sequential access performance: Max. 11 GB/s (128 KB Blocks)	and low response times
■ Latency: Less than 1 ms (4 KB Blocks)	

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Technical details

General system information			
	ETERNUS AF250 S3		
No. of controllers	2		
No. of host interfaces	4-16 ports [FC16Gbit/s)], 4/8 ports [FC(32Gbit/s), iSCSI(10Gbit/s,1Gbit/s)]		
Maximum System Memory	128 GB		
Maximum Disk Drives	264		
Max. no. of drive enclosures	10		
Supported RAID levels	0, 1, 1+0, 5, 5+0, 6		
Host Interfaces	Fibre Channel (16 Gbit/s, 32Gbit/s) iSCSI (10Gbit/s [10GBASE-SR, 10GBASE-CR, 10GBASE-T])		
Mixed host interfaces	Yes		
Max. no. of hosts	1,024		
Drive Type	2.5-inch, SSD (30.72TB / 15.36TB / 7.68TB / 3.84TB / 1.92TB / 960GB) 2.5-inch, SSD (FIPS) (7.68TB / 3.84TB / 1.92TB)		
Drive interface	Serial Attached SCSI (12 Gbit/s)		
Back-end disk connectivity	1 pair of four-lane x 12 Gbit/s Serial Attached SCSI buses (SAS 3.0 wide)		
Max. no. of RAID groups per system	132		
Max. no. of LUNs per RAID group	128		
Max. no. of LUNs	3,072		
Max. LUN capacity	128 TB		
Max. no. of copy generations	512		
Deduplication	Yes		
Compression	Yes		
Performance			
Latency	140μsec (Read), 60μsec (Write)		
Sequential access performance	11,000 MB/s (128KB Read) 5,300 MB/s (128KB Write)		
Random access performance	600,000 IOPS (8KB Read) 480,000 IOPS (8KB Write)		
Performance management			
Automated Storage Tiering	Yes		
Quality of Service	Yes		
Continuity management			
Storage Cluster	Yes		
Remote Copy functionality	Synchronous and asynchronous		
Information security management			
Data confidentiality	HTTPS (SSL), SSH, CHAP, Bidirectional CHAP		
Data integrity	Data Block Guard, Data Encryption, Cache Protection, Disk Drive Patrol, Global Hot Spare, Dedicated Hot Spare, Copy back less, Drive shield, Fast Recovery		
Availability management			
Non-disruptive firmware upgrade	Yes		
Hot part replacement	Yes		
Capacity management			
Thin Provisioning	Yes		
RAID migration	Yes		
Hot part expansion	Yes		

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Management			
nterfaces	Ethernet (1000 Base-T / 100 Base-TX / 1	O Base-T)	
Supported protocols	SNMP (version1, 2C, 3), SMI-S 1.4		
Administration	Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF		
Supported OS for ETERNUS SF			
Operation Management Server	Microsoft® Windows Server® 2019 Microsoft® Windows Server® 2019 Microsoft Windows Server 2012, 2012 R2 Solaris® 11 (11/11 or later) Solaris® 10 (except ETERNUS SF Express) Red Hat Enterprise Linux 8 Red Hat® Enterprise Linux® 7 Red Hat® Enterprise Linux® 6 Oracle Linux 6 VMware® vSphere® 6.0, 6.5, 6.7 Microsoft Windows Server 2019 Hyper-V Microsoft Windows Server 2016 Hyper-V Microsoft Windows Server 2012 Hyper-V, 2012 R2 Hyper-V		
Operation Management Client	Microsoft Internet Explorer 10, 11 Firefox ESR 60, ESR 68 Microsoft Edge 25, 42, 44 Google Chrome 60, 75 Chrome® 47, 50 (Android®) Safari 8, 9 (iOS)		
Note	See the ETERNUS SF datasheet for furthe	er options	
nstallation specification			
19" rackmount	Yes		
Power voltage	AC 100 - 120 V / AC 200 - 240 V		
Power frequency	50 / 60 Hz		
Maximum Power Consumption	AC 100 - 120 V: 5,100W (5,210VA)		
Maximum Power Consumption	AC 200 - 240 V: 5,100W (5,210VA)		
Power phase	Single		
	ETERNUS AF250 S3	2.5-inch Drive Enclosure	
Dimensions (W x D x H)	482 x 645 x 88 mm 19 x 25.4 x 3.5 inch 2 U	482 x 540 x 88 mm 19 x 21.3 x 3.5 inch 2 U	
Veight	35 kg (77 lb)	35 kg (77 lb)	
Environment			
Maximum Heat Generation	AC 100 - 120 V: 18,890: kJ/h		
	AC 200 - 240 V: 18,890: kJ/h		
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)		
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=589915e9-1bf8-40f7-8ba4-7cac9371f2f0		
 Compliance			
Product safety	UL 60950-1, CSA 60950-1, EN 60950-1, IEC 60950-1, TP TC 004/2011, CNS14336		
Electromagnetic Compatibility	FCC Part-15 Subpart B Class A, ICES-003 Class A, EN 55022 (2010), +AI, VCCI Class A, AS/NZS CISPR 22 Class A, CNS13438 (C6357) Class A, KN22		
Electromagnetic Immunity	EN 55024		
Environmental compliance	RoHS compliant, WEEE compliant		
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.		
Compliance link	https://sp.ts.fujitsu.com/sites/certificates	<u> </u>	
Warranty			
Warranty period	3 years		
Warranty type	Onsite warranty		

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Warranty	
Warranty Terms & Conditions Product Support Services - the perfe	www.fujitsu.com/warranty ect extension
Support Pack Options	Available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time (depending on country) 24x7, 4h Onsite Response Time (depending on country)
Recommended Service	24x7, Onsite Response Time: 4h
Service Lifecycle	5 years after end of product life
Service Weblink	www.fujitsu.com/services/product-services

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Fujitsu products, solutions & services

In addition to FUJITSU ETERNUS AF250 S3, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Built on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offerings. This allows customers to select from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

www.fujitsu.com/global/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS AF250 S3, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

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Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www.fujitsu.com/qlobal/about/environment



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