

Storage Unchained

ETERNUS AF250 S2

The ETERNUS AF250 S2 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 environments also fits best as general purpose storage for all Tier-1 applications in small and mid-sized companies.



ETERNUS AF Storage

FUJITSU Storage ETERNUS AF is an incredibly fast and flexible all-flash storage system 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 easilyconfigurable automated quality of service to ensure each app gets the performance it needs, plus flexible without requiring any complicated tuning. It deduplication and compression that can be turned on when required - and off when not. It keeps data safe as houses, with full-fledged DR with mirroring and automated transparent failover.



Green Product Green This product cleared our company's original evaluation standard which followed globa Policy Innovation







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	
	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 430,000 IOPS (4 KB Blocks) Sequential access performance: Max. 12 GB/s (128 KB Blocks) Latency: Less than 1 ms (4 KB Blocks) 	Sufficient performance for all applications requiring high data rates and low response times

Technical details

General system information

	ETERNUS AF250 S2	
No. of controllers		
No. of host interfaces	4/8 ports [FC(16Gbit/s, 32Gbit/s), iSCSI(10Gbit/s)]	
Maximum System Memory	64GB	
Maximum Disk Drives	48	
Max. no. of drive enclosures	1	
Supported RAID levels	0, 1, 1+0, 5, 5+0, 6	
lost Interfaces	Fibre Channel (16 Gbit/s, 32Gbit/s) iSCSI (10 Gbit/s, 10 GBASE-T) iSCSI (10 Gbit/s, 10 GBASE-SR)	
Max. no. of hosts	1,024	
Naximum Storage Capacity	1475 TB	
Drive Type	2.5-inch, SSD (30.72TB / 15.36TB / 7.68TB / 3.84 TB / 1.92 TB / 960GB / 400 GB) 2.5-inch, SSD (self-encrypting) (7.68TB / 3.84 TB/1.92 TB)	
Drive interface	Serial Attached SCSI (12 Gbit/s)	
ack-end disk connectivity	1 pair of four-lane x 12 Gbit/s Serial Attached SCSI buses (SAS 3.0 wide)	
Nax. no. of LUNs	1,536	
lo. of snapshots - max.	4,096	
Nax. no. of copy generations	512	
eduplication	for block	
ompression	for block	
erformance		
atency	Write 60 μs, Read 160 μs (Minimum)	
equential access performance	760,000 IOPS (100 % Read, 4 KB Blocks)	
andom access performance	430,000 IOPS (100 % Read, 4 KB Blocks)	
erformance management		
utomated Storage Tiering	Yes	
luality of Service	Yes	
utomated QoS	Yes	
Vide striping	Yes	
lote	Automation options can be activated via ETERNUS SF Software	
Continuity management		
torage Cluster	Yes	
Remote Copy functionality	Synchronous and asynchronous	
lote	Options can be activated via ETERNUS SF Software	
nformation security management		
Data confidentiality	Self-Encrypting Disk, Controller based Encryption, HTTPS (SSL), One Time Password, RADIUS, SSH	
Data integrity	Cache Protection, Data Block Guard, Disk Drive Patrol	
wailability management		
Non-disruptive maintenance	Dedicated Hot Spare, Global Hot Spare	
Non-disruptive firmware upgrade	Yes	
Redundancy	RAID Controller, Power supply, Fan	
lot part replacement	Yes	
Capacity management		
Thin Provisioning	Yes	

Capacity management			
RAID migration	Yes		
LUN online expansion w/o interruption	Yes		
Reporting function	Yes		
Hot part expansion	Yes		
Management			
nterfaces	Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T)		
Supported protocols	SNMP (version1, 2C, 3), SMI-S 1.6		
Administration	Web-based graphical user interface, CLI (Command Line	Interface) ETERNIIS SE	
Remote Support	Event notification (E-mail / SNMP / Syslog), Remote main		
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Supported OS for ETERNUS SF Operation Management Server	Microsoft® Windows Server® 2010		
Operation Management Client	Microsoft® Windows Server® 2019 Microsoft Windows Server® 2016 Microsoft Windows Server 2012, 2012 R2 Microsoft Windows Server 2008, 2008 R2 Solaris® 11 (11/11 or later) Solaris® 10 Red Hat® Enterprise Linux® 7 Red Hat® Enterprise Linux® 7 Red Hat® Enterprise Linux® 5 Oracle Linux 6 VMware® vSphere® 6.0, 6.5, 6.7 VMware® vSphere® 5.1 / 5.5 Microsoft Windows Server 2019 Hyper-V Microsoft Windows Server 2019 Hyper-V Microsoft Windows Server 2019 Hyper-V Microsoft Windows Server 2019 Hyper-V Microsoft Windows Server 2012 Hyper-V, 2012 R2 Hyper-V Microsoft Windows Server 2008 Hyper-V, 2008 R2 Hyper-V Hyper-V 2.0 Internet Explorer® 9, 10, 11 FireFox® ESR 17, 24, 31, 38, 45, 52, 60 Microsoft Edge® 25, 42 Chrome® 60		
Supported configurations	Chrome® 47, 50 (Android®) Safari 8, 9 (iOS) All major host operating systems, servers and business	applications	
	Detailed support matrix: http://www.fujitsu.com/global/support/products/computing/storage/all-flash-array/supported-configurations/		
nstallation specification			
9″ rackmount	Yes		
Service Area	Front: 850 mm (33.5 inch) or more Rear: 850 mm (33.5 inch) or more		
Power voltage	AC 100 - 120 V / AC 200 - 240 V		
Power frequency	50 / 60 Hz		
Power supply efficiency	92 % (80 PLUS gold)		
Maximum Power Consumption	AC 100 - 120 V: 1,280 W (1,300 VA)		
Maximum Power Consumption	AC 200 - 240 V: 1,280 W (1,300 VA)		
Power phase	Single		
	ETERNUS AF250 S2	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	
Weight	35 kg (77 lb)		
Maximum Power Consumption (AC 100 - 120 V)	850W (860VA)	430W (440VA)	
Maximum Power Consumption (AC 200 - 240 V)	850W (860VA)	430W (440VA)	

Environment		
Maximum Heat Generation	AC 100 - 120 V: 4,700: kJ/h	
	AC 200 - 240 V: 4,700: kJ/h	
Temperature (not operating)	0 - 50 °C	
Humidity (operating)	20 - 80 % (relative humidity, non-condensing)	
Humidity (not operating)	8 - 80 % (relative humidity, non-condensing)	
Altitude	3,000 m (10,000 ft.)	
Sound pressure (LpAm)	47dB(A)	
Sound power (LWAd; 1B = 10dB)	6.5B	
Noise notes	Measured with single enclosure according to ISO 7779 and declared according to ISO 9296	
Operating environment	Site Planning Guide	
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=a6920919-4961-4647-a9be-641a5983efaa	
Compliance		
Product safety	UL 60950-1, CSA 60950-1, EN 60950-1, IEC 60950-1	
Electromagnetic Compatibility	CNS 13438, FCC Part-15 Subpart B Class A, ICES 003 Class A, EN55032, VCCI Class A, AS/NZS CISPR 32 class A	
Electromagnetic Immunity	EN 55024	
CE certification	2014/30/EU, 2014/35/EU, 2011/65/EU	
Approvals	CB, CE, C-Tick, FCC, EAC, GS, VCCI	
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	
Warranty		
Warranty period	3 years	
Warranty type	Onsite warranty	
Warranty Terms & Conditions Product Support Services - the perfec	www.fujitsu.com/warranty t extension	
Support Pack Options	Globally 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	http://www.fujitsu.com/support	

Fujitsu products, solutions & services

In addition to FUJITSU ETERNUS AF250 S2, 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/

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Software
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www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS AF250 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/eternus

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/global/about/environment



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