Fsas Technologies
a Fujitsu company

Data Sheet
ETERNUS AB2100

ETERNUS AB

ETERNUS AB series is an NVMe ready all-flash storage systems with performance and efficiency of block storage systems offering best in class IOPS. At an affordable price point, it makes flash the new normal for all tier-1 applications in enterprise IT. The ETERNUS AB is also built for optimized integration into existing business critical workloads like Microsoft SQL server, Oracle, SAP, etc. ETERNUS AB series offers enhanced data protection features and improved business value at reduced cost. Finally, a variety of APIs (REST-based), orchestration tools (Ansible), and plug-ins (Splunk, Nagios) are available for managing/monitoring AB Series systems.

ETERNUS AB2100

The ETERNUS AB2100 all-flash array delivers high performance in an entry-level AB series all-flash array. The entry-level ETERNUS AB2100 all-flash array is an all-SSD storage system that can improve access to data and increase its value. Requiring just 2U of rack space, the AB2100 all-flash array combines affordable IOPS, microsecond response times, and up to 32 GBps of bandwidth with leading, enterprise-proven availability features.

Features & Benefits

Main Features	Benefits
Accelerates Business Applications	■ Improves overall efficiency of IT operations while continuing to meet performance requirements from business operations. ■ Designed specifically for mixed-workload environments such as big data analytics and databases. ■ Increases performance for big data analytics applications such as Splunk, enabling you to search and analyze data in less time. ■ Extract maximum value from data
Continuous availability	■ Designed to have no single point of failure, the ETERNUS AB2100 all-flash array helps alert on and actively help resolve failures. ■ Extensive capturing of diagnostic data provides comprehensive fault isolation and simplifies analysis of unanticipated events. ■ Background monitoring proactively scans media and tracks drive health against defined thresholds.
Flexible configuration Options	■ Protects investments in storage networks through the ability to independently scale to 1.4PB of raw flash capacity ■ Helps IT be more application responsive and be agile to business needs

Technical details

General system information

	Base
No. of controllers	2
No. of host interfaces	12 Port [FC (4, 8, 16Gbit/s)]
	8 Port [FC (32Gbit/s)]
	12 Port [iSCSI (10Gbit/s)]
	8 Port [iSCSI (10GBase-T)]
	8 Port [iSCSI (25Gbit/s)]
	8 Port [SAS (12Gbit/s)]
Maximum System Memory	64 GB
Maximum Disk Drives	96
Max. no. of drive enclosures	3
Supported RAID levels	0, 1, 1+0, 3, 5, 6, DDP
Host Interfaces	FC (4, 8,16,32Gbit/s)
	iSCSI (10, 25Gbit/s, 10GBASE-T)
	SAS (12 Gbit/s)
Mixed host interfaces	Yes
Max. no. of hosts	128
Maximum Storage Capacity	1,468 TB
Drive Type	2.5-inch, SSD (3.8TB / 1.9TB)
	2.5-inch, SSD (SED) (15.3TB)
Drive interface	12G SAS(MiniSAS HD)
Back-end disk connectivity	2/Controller
Max. no. of RAID groups per system	48
Max. no. of LUNs per RAID group	512
Max. no. of LUNs	512
Max. LUN capacity	2 PiB
Max. no. of copy generations	128
Compatibility note	If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these component lists and compatibility specifications are exhaustive. Using deviating or other system components and applications together with the product may but does not necessarily have to lead to compatibility problems. A final statement and/or commitment on the compatibility of such deviating or other system components and applications can only be provided after a corresponding verification through a dedicated compatibility testing.

Performance management

Note	Use of browser software is subject to proactive acceptance of the respective License Agreements/ EULAs of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional.

Continuity management

Remote Copy functionality	Synchronous and asynchronous
Note	The product may in connection with and depending on the specific configuration include elements to support time- and performance-critical applications, however high availability (e.g., 99.9999%) and failsafe performance is not a standalone product feature. If and to the extent the product is to be used in such business-critical environments, it is within the sole responsibility of the user to set up the specific additional technical features (e.g., Storage Cluster), redundancies, and operational conditions as required to ensure such high availability or failsafe performance.

Information security management

Data confidentiality	HTTPS (SSL), SSH, iSER(CHAP, Bidirectional CHAP)
Data integrity	Replace drive logically, Rebuild (DDP Rebuild, hot spare converge works), Cache Protection (Backup method, Backup data, Backup retention time: No limit), Data Encryption (Self encryption disk), Media scan, Data Assurance, T10-PI, Check Volume Redundancy

Information security management

Note	The properties of the product provide a baseline for product security and therefore end-customer IT security. However, these properties are not sufficient on their own to protect the product from all existing threats, such as intrusion attempts, data exfiltration and other forms of cyberattacks. To customize security settings, please use the configuration options as available for the respective product. During operation, the IT security of this product is within the responsibility of the respective administrator/end-user of the product. Please note, that Fsas Technologies Inc. as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation.

Availability management

Non-disruptive firmware upgrade	Yes
Hot part replacement	Yes

Capacity management

Thin Provisioning	Yes
Reporting function	Yes (Performance, Capacity, host connectivity)
Hot part expansion	Yes
Non-disruptive firmware upgrade	Yes

Management

Interfaces	1Gb Ethernet
Supported protocols	SNMP v2c, REST
Administration	SANtricity System Manager(GUI: Graphical user interface), SMCli(CLI: Command Line Interface), REST API, SANtricity Unified Manager

Supported OS for Management software

Operation Management Client	Google Chrome 47 Microsoft Internet Explorer 11 Microsoft Edge EdgeHTML 12 Mozilla Firefox 31 Safari 9

Installation specification

19" rackmount	Yes
Power voltage	AC200-240V/AC100V-120V
Power frequency	50 / 60 Hz
Maximum Power Consumption	AC200-240V/AC100V-120V: Controller Shelf: 659W 2U-Drive Shelf: 375W
Power phase	Single
Dimensions (W x D x H)	Base 480 x 483 x 85 mm 18.9 x 19 x 3.3 inch 2 U
Weight	23.6 kg (52 lb)
Note	Numbers do not include Rack Mount Kits. Rack Mount Kits increase the weight by 4 kg.

Environment

Maximum Heat Generation	AC200-240V/AC100V-120V: 6422: kJ/h
Temperature (operating)	5 - 40 ℃
Humidity (operating)	8 - 85 %

Compliance

Product	AB2100
Model	NAJ-1501
Product safety	IEC 60950-1, IEC 62368-1, EN 62368-1, ANSI/UL 62368-1, 2nd Ed, CAN/CSA C22.2 No. 62368-1-14, CNS 14336-1, TP TC 004
Electromagnetic Compatibility	EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, FCC Part-15 Subpart B Class A, ICES-003 Class A, VCCI Class A, JIS C 61000-3-2, CNS 13438, AS/NZS CISPR 32 class A, TP TC 020, KN32 Class A, KN35
Electromagnetic Immunity	EN 55035
Environmental compliance	RoHS compliant, WEEE compliant

Compliance

Compliance link	https://sp.ts.fujitsu.com/sites/certificates
Manufacturer	Fsas Technologies Inc. 13-2, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-0012, Japan

Warranty

Manufacturer warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/warranty

Product Support - the perfect extension

Service Lifecycle	at least 5 years after shipment, for details see https://support.ts.fujitsu.com/
Service Weblink	www.fujitsu.com/services/product-services

Fsas Technologies products, solutions & services

In addition to ETERNUS AB2100, Fsas Technologies provides a range of platform solutions. They combine reliable Fsas Technologies products with the best in services, know-how and worldwide partnerships.

Fsas Technologies Portfolio
Built on industry standards, Fsas Technologies offers a full portfolio of datacenter hardware, software and related services. This allows customers to select alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Data Center Solutions
https://www.fsastech.com/en-eu/

More information

Learn more about ETERNUS AB2100, please contact your Fsas Technologies sales representative or Business partner, or visit our website.
www.fujitsu.com/global/products/computing/storage/all-flash-arrays/eternus-ab2100/

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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