

Data Sheet

ETERNUS AB3100

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 AB3100

The ETERNUS AB3100 is an entry-level end-to-end NVMe array offering low latency and affordable high performance to handle your speed-hungry workloads. With the AB3100, you can benefit from the latest NVMe flash technology while connecting via traditional SAN interfaces. It combines extreme IOPS, sub-millisecond latency, and up to 20 Gbps of bandwidth with proven availability features. AB3100 is ideal for medium-sized but demanding workloads, such as enterprise databases, artificial intelligence and machine learning, analytics, streaming media, and parallel file systems



Features & Benefits

Main Features	Benefits
Accelerates Business Applications	<ul style="list-style-type: none">■ Accelerate write IOPS and read/write throughput with an end-to-end NVMe storage platform that's purpose-built for high-performance■ Designed for medium-sized but demanding workloads, such as enterprise databases, artificial intelligence and machine learning, analytics, streaming media, and parallel file systems■ Fast, simple, and reliable storage that increases performance for big data analytics applications such as Splunk, enabling you to search and analyze data in less time
Continuous availability	<ul style="list-style-type: none">■ Designed to have no single point of failure, offering high reliability and high availability■ Extensive capturing of diagnostic data provides comprehensive fault isolation and simplifies analysis of unanticipated events■ Drive rebuild continues even when an unreadable sector or second failure is found
Flexible configuration Options	<ul style="list-style-type: none">■ Affordable storage protects storage investments through the ability to independently scale to 367TB of raw flash capacity with sustained throughput of up to 20GBps■ Helps IT be more application responsive and agile to business needs

Technical details

Supported RAID levels	0, 1, 1+0, 3, 5, 6, DDP
Host Interfaces	FC (32Gbit/s) NVMe over FC (32Gbit/s) NVMe over InfiniBand (100Gbit/s) NVMe over RoCE (100Gbit/s) iSCSI (10, 25Gbit/s)
Mixed host interfaces	No
Max. no. of hosts	512
Maximum Storage Capacity	4,687.2 TB
Maximum Storage Capacity SSD	1,836.0 TB
Drive Type	2.5-inch, NVMe SSD (3.8TB / 1.9TB) 2.5-inch, NVMe SSD (SED) (15.3TB / 7.6TB / 3.8TB / 1.9TB) 2.5-inch, NVMe SSD (FIPS) (3.8TB) 2.5-inch, SSD (7.6TB / 3.8TB / 1.9TB) 2.5-inch, SSD (SED) (15.3TB) 2.5-inch, SSD (FIPS) (1.6TB) 3.5-inch, Nearline SAS, 7.2krpm (18TB / 12TB / 8TB / 4TB) 3.5-inch, Nearline SAS (FIPS), 7.2krpm (10TB) 3.5-inch, SSD (1.9TB) 3.5-inch, SSD (FIPS) (1.6TB)
Drive interface	NVMe; SAS
Note	NVMe drives are installed in the controller shelf and SAS drives are installed in the drive shelves
Max. no. of RAID groups per system	132
Max. no. of LUNs	2,048
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	
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
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

Availability management

Hot part replacement	Yes
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Capacity management

Thin Provisioning	No
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 ETERNUS SF Express

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

19" rackmount	Yes
Power voltage	AC 200 - 240 V
Power frequency	50 / 60 Hz
Maximum Power Consumption	AC 200 - 240 V: Controller Shelf: 953W DE212C:344W DE224C:375W DE460C:1,460W
Power phase	Single

Environment

Maximum Heat Generation	AC 200 - 240 V: 24,455: kJ/h
Temperature (operating)	10 - 35 °C
Humidity (operating)	8 - 80 % (relative humidity)

Compliance

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 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

Fujitsu products, solutions & services

In addition to ETERNUS AB3100, 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/

Software

www.fujitsu.com/software/

More information

Learn more about ETERNUS AB3100, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/global/products/computing/storage/all-flash-arrays/eternus-ab3100/

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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Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.

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Contact

Fujitsu Limited

Website: www.fujitsu.com/eternus

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