

# Data Sheet

## Fujitsu Storage ETERNUS AX2200 All-flash Array

### ETERNUS AX

FUJITSU Storage ETERNUS AX series is a collection of unified and massively scale-out all-flash storage systems, designed to enable your digital transformation by offering superior flexibility, continuous availability and seamless cloud-connected data management in Hybrid IT environments. Powered by industry leading NVMe technologies, the ETERNUS AX storage systems accelerate your applications while seamlessly managing your data on the edge, core and the cloud to keep your data available, protected and secure.

### ETERNUS AX2200

Fujitsu Storage ETERNUS AX2200 is an entry-level end-to-end NVMe all-flash storage system with fast connectivity, storage efficiency and best-in-class cloud integration. It offers full end-to-end NVMe support by combining low-latency NVMe solid-state drives (SSDs) and NVMe over Fibre Channel (NVMe/FC) connectivity to deliver optimal performance for demanding workloads. Powered by best-in-class data management software, ETERNUS AX2200 delivers accelerated application performance, consolidation of workloads in a shared environment and overall cost reduction with seamless cloud-connected data management in Hybrid IT Infrastructures. ETERNUS AX2200 is also available as a dedicated, all-flash SAN solution for mission-critical applications. It provides a simplified and dedicated SAN experience with availability, consistent and predictable performance, and cloud connectivity



# Features & Benefits

Main Features	Benefits
Flexible and future-proof storage	<ul style="list-style-type: none"><li>■ Unified data services across SAN and NAS environments, which can scale capacity and performance non-disruptively and also seamlessly cluster different ETERNUS AX and ETERNUS HX systems.</li><li>■ Consolidate data management across on-premise storage and cloud in Hybrid IT Infrastructures, along with effortless integration with multiple public clouds – AWS, Microsoft Azure and Google Cloud.</li><li>■ Speed up your critical applications with end-to-end NVMe all-flash array offering ultra-low latency and increased data throughput.</li><li>■ Best-in-class integrated and application-consistent data protection software to prevent data loss and accelerate recovery with space-efficient snapshots, synchronous and asynchronous replication.</li><li>■ Innovative data reduction technologies provide incremental space savings to efficiently meet SLAs in hybrid IT environments with secure multitenancy and adaptive quality of service (QoS). Simplify and speed up day-to-day storage management with ONTAP System Manage and optimize your storage infrastructure with predictive analytics using Active IQ.</li></ul>
Seamless cloud-connected data management	
Accelerate business applications with end-to-end NVMe	
Continuous availability without compromise	
Maximize storage efficiency	

# Technical details

## General system information

	Base
No. of controllers	NAS:2-24 (HA Pair x12) SAN:2-12 (HA Pair x6)
No. of host interfaces	16 Port [FC (16, 32Gbit/s)] 16 Port [NVMe-FC (32Gbit/s)] 16 Port [iSCSI (10, 25Gbit/s)] 16 Port [Ether (10, 25Gbit/s)] 4 Port [iSCSI (1, 10GBase-T)]
Maximum System Memory (HA pair)	128 GB
Max. no. of LUNs (HA Pair)	16,384
Max. no. of LUNs (SAN)	65,536
Max. no. of LUNs (NAS)	131,072
Supported RAID levels	4, 6, TEC
Host Interfaces	Fibre Channel (32Gbit/s, 16Gbit/s, 8Gbit/s) NVMe over FC (32Gbit/s) iSCSI (10, 25Gbit/s, 10GBASE-T) Ether (10, 25Gbit/s), 10GBase-T
Mixed host interfaces	Yes
Max. no. of hosts	2048
Maximum Storage Capacity (HA Pair)	734.4 TB
Maximum Storage Capacity(NAS)	8.8 PB
Maximum Storage Capacity (SAN)	4.4 PB
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)
Drive interface	100G NVMe
Back-end disk connectivity	4/Controller
Max. no. of LUNs per RAID group	16,384
Max. LUN capacity	128 TB
Max. no. of copy generations	1,023
Deduplication	Yes
Compression	Yes
Compaction	Yes

## Performance management

Quality of Service	Yes
Operation Management Client	Google Chrome 65.0, Microsoft Internet Explorer 11.0, Mozilla Firefox 59.0

## Continuity management

Metro cluster	Yes
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, iSCSI (CHAP, Bidirectional CHAP)
Data integrity	Rebuild, Cache Protection (Backup method, Backup data, Backup retention time: No limit), Data Encryption (Software Encryption, Storage Encryption, Self encryption disk), Disk Patrol, Data Block Guard, HDD Shield, CheckSum: BCS/AZCS, Pool Diagnosis (CLI Only)

**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 Fujitsu as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation.
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**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 v1/v2c/v3, REST, SMI-S
Administration	ONTAP System manager (GUI: Graphical user interface), CLI (Command Line Interface), REST API, Active IQ Unified Manager, SnapCenter

**Supported OS for ETERNUS SF Express**

Operation Management Client	Google Chrome 65.0 Microsoft Internet Explorer 11.0 Mozilla Firefox 59.0
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**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: 1079W	
Power phase	Single	
	Base	2.5 NVMe Drive Shelf
Dimensions (W x D x H)	483 x 543 x 87 mm 19 x 21.4 x 3.4 inch 2 U	483 x 543 x 87 mm 19 x 21.4 x 3.4 inch 2 U
Weight	24.6 kg (54 lb)	30.3 kg (67 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: 6937: kJ/h
Temperature (operating)	0 - 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	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**Warranty**

Warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	<a href="http://www.fujitsu.com/warranty">www.fujitsu.com/warranty</a>

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Warranty

Product Support - the perfect extension

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Service Lifecycle	at least 5 years after shipment, for details see <a href="https://support.ts.fujitsu.com/">https://support.ts.fujitsu.com/</a>
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Service Weblink	<a href="http://www.fujitsu.com/services/product-services">www.fujitsu.com/services/product-services</a>
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### Fujitsu products, solutions & services

In addition to Fujitsu ETERNUS AX2200, 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/](http://www.fujitsu.com/global/products/computing/)

#### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

### More information

Learn more about Fujitsu ETERNUS AX2200, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/eternus](http://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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### 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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