FUJITSU

Data Sheet
ETERNUS HB2100

ETERNUS HB

ETERNUS HB series is NVMe ready hybrid storage systems with performance and efficiency of block storage systems helping drive business value at a reduced cost. The ETERNUS HB is built for optimized for integration into existing business critical workloads like Microsoft SQL server, Oracle, SAP, etc. In addition to enhanced data protection features, a variety of APIs (REST-based), orchestration tools (Ansible), and plug-ins (Splunk, Nagios) are available for managing/monitoring HB Series systems.

ETERNUS HB2100

ETERNUS HB2100 storage system is ideal for small and medium sized businesses, plus enterprise remote and branch offices. ETERNUS HB2100 helps streamline IT infrastructure and offers a pay-as-you-grow flexibility making it an excellent solution for companies that are facing rapid, unpredictable growth. ETERNUS HB2100 hybrid arrays are purpose-built to optimize performance for mixed workloads. The ETERNUS HB2100 provides incredible IOPS and throughput along with an intuitive, on-box graphical interface that simplifies configuration and maintenance while providing enterprise-level storage capabilities to deliver consistent performance, flexibility and reliability.

Features & Benefits

Main Features	Benefits
Accelerates Business Applications	■ Higher performance with solid-state drives (SSDs) enables the ETERNUS HB2100 to maximize storage density, requiring fewer disks to meet your performance objectives. ■ Streamline your IT infrastructure and drive down costs ■ Secondary cache feature provides intelligent analytics-based caching capabilities for read intensive workloads
Continuous availability	■ ETERNUS HB2100 storage systems enable you to achieve greater than 99.9999% availability and provide data integrity and security ■ validates data integrity and protects against silent data corruption ■ All management tasks are carried out while the storage remains online with complete read/write data access. Storage administrators can make configuration changes and conduct maintenance without disrupting application I/O. ■ Background monitoring proactively scans media and tracks drive health against defined thresholds.
Flexible configuration Options	■ Enables the automation and agility that are needed in the DevOps-based IT revolution ■ The ultradense 60-drive system shelf supports up to 720TB in just 4U and is optimal for environments with vast amounts of data and limited floor space, with either 2.5-inch or 3.5-inch drives. ■ Industry leading performance and space efficiency to reduce rack space by up to 60%. Its high-efficiency power supplies can lower power and cooling use by up to 40%.

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	192
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	3,456 TB
Maximum Storage Capacity HDD	3,456 TB
Maximum Storage Capacity SSD	1,124.4 TB
Drive Type	2.5-inch, SAS, 10krpm (1.8TB / 1.2TB)
	2.5-inch, SAS (FIPS), 10krpm (1.8TB)
	3.5-inch, Nearline SAS, 7.2krpm (18TB / 12TB / 8TB / 4TB)
	3.5-inch, Nearline SAS (FIPS), 7.2krpm (10TB)
	HDDE, Nearline SAS, 7.2krpm (18TB / 12TB / 8TB / 4TB)
	HDDE, Nearline SAS (FIPS), 7.2krpm (10TB)
	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, SSD (1.9TB)
	3.5-inch, SSD (FIPS) (1.6TB)
	HDDE, SSD (1.9TB)
	HDDE, SSD (FIPS) (1.6TB)
Max. no. of SSDs	120
Mixed 2.5 inch/ 3.5 inch drive enclosures	Yes
Drive interface	12G SAS(MiniSAS HD)
Back-end disk connectivity	2/Controller
Max. no. of RAID groups per system	96
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, iSCSI (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
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 (DE460C Support only AC200V-240V)
Power frequency	50 / 60 Hz
Maximum Power Consumption	AC200-240V/AC100V-120V (DE460C Support only AC200V-240V): Controller Shelf: 565W 2U-Drive Shelf: 452W/344W (2.5"/3.5") HD-Drive Shelf: 1,460W
Power phase	Single
	Base
Dimensions (W x D x H)	480 x 505 x 87 mm 18.9 x 19.9 x 3.4 inch 2 U
Weight	29.3 kg (65 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 (DE460C Support only AC200V-240V): 17803: kJ/h

Environment

Temperature (operating)	5 - 40 °C
Humidity (operating)	8 - 85 %

Compliance

Product	HB2100
Model	NAJ-1502
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

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 HB2100, 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 HB2100, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/global/products/computing/storage/disk/eternus-hb/hb2100/

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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