

# Data Sheet

## FUJITSU Storage ETERNUS HB2300



### ETERNUS HB

FUJITSU Storage 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 HB2300

ETERNUS HB2300 storage system is ideal for small and medium sized businesses, plus enterprise remote and branch offices. ETERNUS HB2300 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 HB2300 hybrid arrays are purpose-built to optimize performance for mixed workloads. The ETERNUS HB2300 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
<b>Accelerates Business Applications</b>	<ul style="list-style-type: none"><li>■ Higher performance with solid-state drives (SSDs) enables the ETERNUS HB2300 to maximize storage density, requiring fewer disks to meet your performance objectives.</li><li>■ Streamline your IT infrastructure and drive down costs</li><li>■ Secondary cache feature provides intelligent analytics-based caching capabilities for read intensive workloads</li></ul>
<b>Continuous availability</b>	<ul style="list-style-type: none"><li>■ ETERNUS HB2300 storage systems enable you to achieve greater than 99.9999% availability and provide data integrity and security</li><li>■ validates data integrity and protects against silent data corruption</li><li>■ 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.</li><li>■ Background monitoring proactively scans media and tracks drive health against defined thresholds.</li></ul>
<b>Flexible configuration Options</b>	<ul style="list-style-type: none"><li>■ Enables the automation and agility that are needed in the DevOps-based IT revolution</li><li>■ 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.</li><li>■ 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%.</li></ul>

# 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 (12Gbit/s)
Mixed host interfaces	Yes
Max. no. of hosts	128
Maximum Storage Capacity	3,072 TB
Maximum Storage Capacity HDD	3,072 TB
Maximum Storage Capacity SSD	1,133.6 TB
Drive Type	2.5-inch, SAS, 10krpm (1.8TB / 1.2TB) 2.5-inch, SAS (FIPS), 10krpm (1.8TB) 2.5-inch, SAS (SED), 10krpm (1.8TB) 3.5-inch, Nearline SAS, 7.2krpm (16TB / 12TB / 8TB / 4TB) 3.5-inch, Nearline SAS (FIPS), 7.2krpm (10TB) HDDE, Nearline SAS, 7.2krpm (16TB / 12TB / 8TB / 4TB) HDDE, Nearline SAS (FIPS), 7.2krpm (10TB) 2.5-inch, SSD (15.3TB / 7.6TB / 3.8TB / 1.6TB / 800GB) 2.5-inch, SSD (FIPS) (1.6TB) 2.5-inch, SSD (SED) (1.6TB / 3.8TB) 3.5-inch, SSD (800GB) 3.5-inch, SSD (FIPS) (1.6TB) HDDE, SSD, (1.6TB / 800GB) HDDE, SSD (FIPS) (1.6TB) HDDE, SSD (SED) (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	180
Max. no. of LUNs per RAID group	512
Max. no. of LUNs	512
Max. LUN capacity	2 PiB
Max. no. of copy generations	128

## Performance management

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

## Continuity management

Remote Copy functionality Synchronous and asynchronous

**Information security management**

<b>Data confidentiality</b>	HTTPS (SSL), SSH, iSCSI (CHAP, Bidirectional CHAP)
<b>Data integrity</b>	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

**Availability management**

<b>Non-disruptive firmware upgrade</b>	Yes
<b>Hot part replacement</b>	Yes

**Capacity management**

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

**Management**

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

**Supported OS for Management software**

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

<b>19" rackmount</b>	Yes			
<b>Power voltage</b>	AC200V			
<b>Power frequency</b>	50 / 60 Hz			
<b>Maximum Power Consumption</b>	AC200V: Controller Shelf: 1,537W 2U-Drive Shelf: 452W/344W (2.5"/3.5") HD-Drive Shelf: 1,460W			
<b>Power phase</b>	Single			
	Base	3.5 Drive Shelf	2.5 Drive Shelf	HD Drive Shelf
<b>Dimensions (W x D x H)</b>	486 x 922 x 175 mm 19.1 x 36.3 x 6.9 inch 4 U	480 x 505 x 87 mm 18.9 x 19.9 x 3.4 inch 2 U	480 x 484 x 85 mm 18.9 x 19.1 x 3.3 inch 2 U	486 x 922 x 176 mm 19.1 x 36.3 x 6.9 inch 4 U
<b>Weight</b>	108.1 kg (238 lb)	28.7 kg (63 lb)	24.4 kg (54 lb)	112 kg (247 lb)

**Environment**

<b>Maximum Heat Generation</b>	AC200V: AC200 - 240V: 17283: kJ/h
<b>Temperature (operating)</b>	5 - 40 °C
<b>Humidity (operating)</b>	8 - 85 %

**Compliance**

<b>Product safety</b>	EN 60950-1, IEC 60950-1, CAN/CSA C22.2 No. 60950-1, ANSI/UL 60950-1, TP TC 004/2011, CNS14336-1
<b>Electromagnetic Compatibility</b>	EN55032, CISPR32, VCCI Class A, AS/NZS CISPR 22:2009+A1:2010, AS/NZS CISPR 32:2013, Class A, CNS 13438, TP TC 020/2011
<b>Electromagnetic Immunity</b>	EN 55032, CISPR32, VCCI Class A, AS/NZS CISPR 22:2009+A1:2010, AS/NZS CISPR 32:2013, Class A, CNS13438, TP TC 020/2011, KN32
<b>Environmental compliance</b>	RoHS compliant, WEEE compliant
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**Warranty**

<b>Warranty period</b>	3 years
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**Warranty**

**Warranty type** Onsite warranty

**Warranty Terms & Conditions** [www.fujitsu.com/warranty](http://www.fujitsu.com/warranty)

**Product Support Services - the perfect extension**

**Service Lifecycle** 5 years after end of product life

**Service Weblink** [www.fujitsu.com/services/product-services](http://www.fujitsu.com/services/product-services)

### Fujitsu products, solutions & services

In addition to FUJITSU ETERNUS HB2300, 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 HB2300, 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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#### Contact

FUJITSU LIMITED  
Website: [www.fujitsu.com/eternus](http://www.fujitsu.com/eternus)  
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