FUJITSU

Data Sheet
FUJITSU Storage ETERNUS HB2100

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 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	1,120.8 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 (18TB / 16TB / 12TB / 8TB / 4TB)
	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 (SED) (1.6TB / 3.8TB)
	2.5-inch, SSD (FIPS) (1.6TB)
	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	90
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

Data confidentiality	HTTPS (SSL), SSH, iSCSI (CHAP, Bidirectional CHAP)

Information security management

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

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	AC200V / AC100V (DE460C suppots only AC 200V)
Power frequency	50 / 60 Hz
Maximum Power Consumption	AC200V / AC100V (DE460C suppots only AC 200V): Controller Shelf: 565W 2U-Drive Shelf: 452W/344W (2.5"/3.5") HD-Drive Shelf: 1,460W
Power phase	Single

	Base	3.5 Drive Shelf	2.5 Drive Shelf	HD Drive Shelf
Dimensions (W x D x H)	480 x 505 x 87 mm 18.9 x 19.9 x 3.4 inch 2 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
Weight	28.8 kg (63 lb)	28.7 kg (63 lb)	24.4 kg (54 lb)	112 kg (247 lb)

Environment

Maximum Heat Generation	AC200V / AC100V (DE460C suppots only AC 200V): AC200 - 240V: 17803: kJ/h
Temperature (operating)	5 - 40 °C
Humidity (operating)	8 - 85 %

Compliance

Product safety	EN 60950-1, IS 13252:2010, CAN/CSA C22.2 No. 60950-1, ANSI/UL 60950-1, TP TC 004/2011, CNS14336-1
Electromagnetic Compatibility	EN55032, CISPR32, VCCI Class A, AS/NZS CISPR 22:2009+A1:2010, AS/NZS CISPR 32:2013, AS/NZS CISPR 32:2015, Class A, CNS 13438, TP TC 020/2011
Electromagnetic Immunity	EN 55032, CISPR32, VCCI Class A, AS/NZS CISPR 22:2009+A1:2010, AS/NZS CISPR 32:2013, AS/NZS CISPR 32:2015, Class A, CNS13438, TP TC 020/2011, KN32
Environmental compliance	RoHS compliant, WEEE compliant
Compliance link	https://sp.ts.fujitsu.com/sites/certificates

Warranty

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

Product Support Services - the perfect extension

Warranty

Service Lifecycle	5 years after end of product life
Service Weblink	www.fujitsu.com/services/product-services

Fujitsu products, solutions & services

In addition to FUJITSU 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/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS HB2100, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
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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