

# Data Sheet

## FUJITSU Storage ETERNUS CS8050

### Data Protection Appliance

Backup appliance for branch offices  
Archiving appliance for mid-sized business



#### ETERNUS CS Data Protection Appliances

Data protection appliances from Fujitsu simplify and consolidate backup and archive infrastructures. Fujitsu specializes in mapping the right technology for individual needs depending on your business size. Our appliances offer advanced capabilities such as deduplication, replication, archiving and cross media mix, thus mitigating risk, minimizing downtime and protecting business against cyber-attack.

#### ETERNUS CS8050

The ETERNUS CS8050 data protection appliance provides comprehensive storage functionality for mid-sized businesses across physical and virtual environments at a very affordable price. Based on the long-established ETERNUS CS8000 datacenter solution the appliance works together with leading backup and archiving software.



The ETERNUS CS8050 model offers backup to disk in branch or remote offices for open system environments. By combining deduplication with replication the solution reduces storage cost and ensures business continuity.

Archiving is becoming more and more an integral part of any modern, intelligent data protection strategy, addressing compliance and long-term retention challenges. The ETERNUS CS8050 NAS system is a reliable, cost-efficient archiving appliance for archiving and second-tier file storage. The solution features replication, integrated backup and SoftWORM capabilities to ensure business efficiency, continuity and fulfilling compliance regulations.



# Features & Benefits

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| Main Features  | Benefits   |
|--|--|
| <b>ETERNUS CS8050 – backup appliance</b> <ul style="list-style-type: none"><li>■ Entry-level appliance based on ETERNUS CS8000 backup platform</li><li>■ Integrated, flexible deduplication for backup to disk</li><li>■ Asynchronous replication to another ETERNUS CS8050 or ETERNUS CS8000</li><li>■ Backup to ETERNUS CS8000, including tape storage</li></ul>   | <ul style="list-style-type: none"><li>■ Reduces storage capacity, network requirements and cost</li><li>■ Ensures highest effectivity and performance</li><li>■ Ensures business continuity</li><li>■ Reduces planned and unplanned downtime</li><li>■ Offers high flexibility depending on business needs</li></ul> |
| <b>ETERNUS CS8050 NAS – archiving appliance</b> <ul style="list-style-type: none"><li>■ Entry-level appliance based on ETERNUS CS8000 archive platform</li><li>■ Offload old, inactive data from backup to archive</li><li>■ SoftWORM functionality for long-term retention</li><li>■ Archive data can be replicated to remote sites for DR</li><li>■ Integrated backup functionality for archive and file data</li><li>■ Works together with all leading archiving software</li></ul> | <ul style="list-style-type: none"><li>■ Frees up backup storage resources</li><li>■ Reduces backup time and cost</li><li>■ Enhances business efficiency</li><li>■ Meets compliance regulations</li><li>■ Reduces planned and unplanned downtime</li><li>■ Ensures business continuity</li></ul>                      |

# Models and architecture

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## ETERNUS CS8050 - backup appliance for branch offices

- The ETERNUS CS8050 is a Virtual Tape Library system for backup to disk in branch or remote offices for open system environments. The system supports the integration of a central data protection strategy with the ETERNUS CS8000 - the datacenter solution for backup and archive automation for open systems and mainframes - in the main data center.
- The integrated RAID storage comes at a fixed capacity and is available with deduplication, without deduplication or as a mixed operation.
- For disaster resilience concepts, ETERNUS CS8050 supports asynchronous replication to a remote ETERNUS CS8050 system in the branch office or in the main data center. Data is compressed to minimize the amount of replicated data.
- One or more ETERNUS CS8050 device can replicate data to a central ETERNUS CS8000 in the main data center over a long distance, implementing a branch office backup concept.
- The ETERNUS CS8050 also offers a backup-to-disk-to-tape option. The integrated tape automation function copies the backup data to the locally connected tape library or to a remote library over a long distance. Tape storage has been shown to be an effective backup medium, providing secure offline backup and, helping to maintain the integrity and accessibility of business-critical data even in cases of cybercrime, such as ransomware attacks.

## ETERNUS CS8050 NAS - archiving appliance for mid-sized business

- The ETERNUS CS8050 NAS system is an entry-level model of the ETERNUS CS8000 archive platform for archive and second-tier file storage purposes.
- The NAS model receives the data via NFS and CIFS interface and stores the data on the RAID protected disk storage. The ETERNUS CS8050 NAS scales from 28 TB to a maximum of 70 TB net usable capacity and supports up to 200 million files, irrespective of their size. The appliance works together with all leading archiving software.
- To meet legal requirements, the software capability SoftWORM stores the files on disk in a way that the data is unchangeable for a defined retention period. This WORM (Write Once, Read Many) functionality enables long-term storage for compliant archiving.
- The appliance supports asynchronous replication on a remote ETERNUS CS8050 NAS system for the archive/files store. There is no need for any other replication software.
- The solution features the snapshot-based backup of data stored on ETERNUS CS8050 disk. Depending on the configuration, the system periodically creates a snapshot of the archive/file data, can store a number of snapshots locally and, as an option, replicate them to a target ETERNUS CS8000 NAS. Backup data for multiple ETERNUS CS8050 NAS systems can be replicated to a shared ETERNUS CS8000, providing replication targets for all replication sources via LAN or WAN.
- For disaster recovery, the archiving appliance can replicate data over a long distance to the ETERNUS CS8000 - data center automation for backup and archiving - in the main data center. The remote copy is available even if the entire branch office is hit by a catastrophic event such as fire or flooding. In addition, the data can also be stored on a tape library on the ETERNUS CS8000 backend. The ETERNUS CS8000 supports trusted long term archiving on tape, the most cost-efficient storage media with the longest lifetime.

# Technical details

## General system information

| Model                     | CS8050               | CS8050 NAS        | CS8050 NAS        |
|---------------------------|----------------------|-------------------|-------------------|
| Type                      | Branch-office System | Archive System    | Archive System    |
| Host connectivity options | VTL, VTL with Dedup  | NAS               | NAS               |
| Hardware platform         | S14                  | S14               | S14               |
| Software version          | V 7                  | V 7               | V 7.1             |
| Capacity (net usable)     | 14 TB                | 28, 42, 56, 70 TB | 28, 42, 56, 70 TB |

## VTL Subsystem

|                                     |              |                    |                    |
|-------------------------------------|--------------|--------------------|--------------------|
| Sustained Performance (max.)        | 1.4 TB/h     | - (no VTL support) | - (no VTL support) |
| VTL Front-end Ports                 | 4 FC 32 GB   |                    |                    |
| Virtual Tape Drives                 | max. 32      |                    |                    |
| Virtual Tape Volumes (max.)         | 20,000       |                    |                    |
| VTL Back-end Port Options           | 4 FC 32 Gb   |                    |                    |
| Physical Tape Volumes (max.)        | 500          |                    |                    |
| Deduplication Store Option (usable) | 7 TB - 14 TB |                    |                    |

## NAS Subsystem

|                           |                     |                                   |                                   |
|---------------------------|---------------------|-----------------------------------|-----------------------------------|
| Supported NAS protocols   | - (no NAS protocol) | NFS<br>CIFS                       | NFS<br>CIFS                       |
| NAS Front-end Ports       |                     | 2 to 4 x 1 GbE or 2 to 4 x 10 GbE | 2 to 4 x 1 GbE or 2 to 4 x 10 GbE |
| NAS Shares (max.)         |                     | 256                               | 256                               |
| Number of Files           |                     | 200 Million                       | 200 Million                       |
| NAS Back-end Port Options |                     | - (no HSM)                        | - (no HSM)                        |

## Physical Tape Support

|  |   |          |          |
|--|---|----------|----------|
| Physical Tape Drives (max.)              | 8 | - (none) | - (none) |
| Physical Tape Libraries supported (max.) | 1 | - (none) | - (none) |

## Supported environments - excerpt

|                       |  |
|-----------------------|--|
| Host interoperability | Open Systems (AIX, HP-UX, Solaris, SUSE LINUX, Red Hat LINUX, z/Linux, Windows)<br>For additional information or operating systems not listed please contact your Fujitsu sales representative |
|-----------------------|--|

|  |  |
|--|--|
| Supported backup and archiving software for open systems | Commvault Software<br>Veritas (Backup Exec, NetBackup, EnterpriseVault)<br>IBM (Spectrum Protect, prev. Tivoli Storage Manager)<br>Veeam (Backup & Replication)<br>Atempo (Time Navigator)<br>Ceyoniq nscale 7<br>Dell EMC (NetWorker)<br>Micro Focus (Data Protector) (former "HP Data Protector")<br>SEP sesam<br>For additional information or applications not listed please contact your Fujitsu sales representative |
|--|--|

|                                   |  |          |
|-----------------------------------|--|----------|
| Supported physical tape libraries | Fujitsu (ETERNUS LT Family)<br>Quantum (Scalar iSeries)<br>Oracle (SL Series)<br>IBM (TS4500)<br>Spectra Logic (Spectra T50, T120, T950)<br>For additional information or tape libraries not listed please contact your Fujitsu sales representative | - (none) |
|-----------------------------------|--|----------|

|                                |   |          |
|--------------------------------|---|----------|
| Supported physical tape drives | IBM (Jaguar 3592 / TS1120 / TS1130 / TS1140 / TS1150)<br>Oracle (T9840, T9940, T10000)<br>LTO Ultrium (Gen 3, Gen 4, Gen 5, Gen 6, Gen 7, Gen 8)<br>For additional information or tape drives not listed please contact your Fujitsu sales representative | - (none) |
|--------------------------------|---|----------|

**Installation specification**

|                         |  |
|-------------------------|--|
| 19" rackmount           | Yes  |
| Height Unit standard    | 2 U  |
| Weight                  | 20 kg  |
| Power voltage           | Industry: 1, 2 or 3 phases of 230 V / US: 2 supplies of 208 V (phase to phase)   |
| Power frequency         | 50 / 60 Hz   |
| Power phase             | Single, Dual or Triple   |
| Fuse protection         | Industry: 16 A per phase (fuses not coupled)<br>US: 20 A per phase (fuses not coupled)<br>To be cared about by the customer  |
| Power Connector Options | 2 x IEC 320 10A KG   |
| Notes                   | Power Connection Options: Default is 2 x CEE 3x16A (best power redundancy, which is highly recommended). Each configuration will be analyzed in SysARC and the internal power distribution will be set for maximum power redundancy. A mix inside a Rack is not allowed. Each rack can be individually configured. |

**Installation specification for a typical configuration**

|                                |  |
|--------------------------------|--|
| Power consumption (standby)    | 230 W  |
| Power consumption (under load) | 305 W  |
| Heat generation                | 1,098 kJ/h / 1,041 BTU/h   |
| Notes                          | Weight, power consumption and heat generation are stated for a typical system configuration! Due to high scalability, detailed values are calculated and available through the configuration tool SysARC (System Architect). |

**Environment**

|                             |   |
|-----------------------------|---|
| Room air conditioned        | Recommended, at 20° C (68° F)   |
| Floor air supply            | No  |
| Temperature (not operating) | -20 - 40 °C   |
| Humidity (operating)        | Long Term at appr. 50 % RH; tolerances at 30 to 70 % RH (relative humidity, non-condensing)   |
| Humidity (not operating)    | 30 - 70 % (relative humidity, non-condensing)   |
| Altitude                    | 3,000 m (10,000 ft.)  |
| Sound pressure (dB/A)       | <60   |
| Operating environment       | FTS 04230 - Guideline for Data Center (installation specification)  |
| Operating environment link  | <a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a> |

**Warranty**

|                             |  |
|-----------------------------|--|
| Warranty period             | 2 years  |
| Warranty type               | Onsite warranty  |
| Warranty Terms & Conditions | <a href="http://www.fujitsu.com/support">www.fujitsu.com/support</a> |

**Product Related Services - the perfect extension**

|                     |  |
|---------------------|--|
| Recommended Service | - Reactive and proactive Service   |
| Service Lifecycle   | 5 years after end of product life  |
| Service Weblink     | <a href="http://www.fujitsu.com/services/product-services">www.fujitsu.com/services/product-services</a> |

**Compliance**

|                               |   |
|-------------------------------|---|
| Product safety                | CE, UL/CSA  |
| Electromagnetic Compatibility | CE, FCC Class A   |
| Electromagnetic Immunity      | CE, FCC   |
| CE certification              | 2011/65/EC  |
| Approvals                     | RoHS  |
| Environmental compliance      | RoHS compliant  |
| Compliance notes              | There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request. |
| Compliance link               | <a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>   |

### Fujitsu products, solutions & services

In addition to FUJITSU ETERNUS CS8050, 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 CS8050, 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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