

# Data Sheet

## FUJITSU Storage ETERNUS CS8050 NAS Storage Appliance for Archiving

Archive appliance for mid-sized business, and branch offices  
Trusted long-term storage and second-tier file storage  
Integrated SoftWORM, replication and snapshot-based backup functionality

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### ETERNUS CS8050 NAS

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 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>SoftWORM</b> <ul style="list-style-type: none"><li>■ SoftWORM functionality on high-performance disk layer</li></ul>	<ul style="list-style-type: none"><li>■ Meets compliance regulations</li></ul>
<b>Replication of files</b> <ul style="list-style-type: none"><li>■ Storage based replication to a remote ETERNUS CS8050 NAS</li><li>■ Storage based replication to a central ETERNUS CS8000</li><li>■ Long distance replication among multiple sites</li></ul>	<ul style="list-style-type: none"><li>■ Disaster resiliency for data</li><li>■ Data consolidation on a central ETERNUS CS8000</li><li>■ Tape integration with a central ETERNUS CS8000</li></ul>
<b>Snapshot-based backup</b> <ul style="list-style-type: none"><li>■ Integrated backup functionality for archive and file data</li></ul>	<ul style="list-style-type: none"><li>■ Ensures data availability</li></ul>

# Models and architecture

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## **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.

## **ETERNUS CS8000 - Datacenter storage solution for backup and archive automation**

- Beside the ETERNUS CS8050 NAS system, there are other ETERNUS CS8000 models available. The ETERNUS CS8000 platform provides many unique functionalities for upper mid-range and data center environments for different backup and archive scenarios. For more information please have a look at [www.fujitsu.com/ETERNUS-CS8000](http://www.fujitsu.com/ETERNUS-CS8000).

# Technical details

## General system information

Model	CS8050 NAS
Type	Archive System
Host connectivity options	NAS
Hardware platform	S14
Software version	V 7.1
Capacity (net usable)	28, 42, 56, 70 TB
Note	Capacity value calculated using Base10 (i.e. 1TB = 1,000,000,000,000 bytes)

## NAS Subsystem

Supported NAS protocols	NFS CIFS
NAS Front-end Ports	2 to 4 x 1 GbE or 2 to 4 x 10 GbE
Number of Inodes (per file system)	200 Million
NAS Back-end Port Options	- (no HSM)
Note	Maximum number of Inodes per file system (Depending if special service such as VRB or File Protection is applied). Ask for project specific configuration for more details.

## Physical Tape Support

Physical Tape Drives (max.)	- (none)
Physical Tape Libraries supported (max.)	- (none)

## Supported environments - excerpt

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

19" rackmount	Yes
Height Unit standard	2 U
Weight	20 kg
Note	Capacity value calculated using Base10 (i.e. 1TB = 1,000,000,000,000 bytes)
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) US: 20 A per phase (fuses not coupled) 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.

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

**Environment**

<b>Humidity (operating)</b>	Long Term at appr. 50 % RH; tolerances at 30 to 70 % RH (relative humidity, non-condensing)
<b>Humidity (not operating)</b>	30 - 70 % (relative humidity, non-condensing)
<b>Altitude</b>	3,000 m (10,000 ft.)
<b>Sound pressure (dB/A)</b>	<60
<b>Operating environment</b>	FTS 04230 - Guideline for Data Center (installation specification)
<b>Operating environment link</b>	<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>
<b>Warranty period</b>	2 years
<b>Warranty type</b>	Onsite warranty / ServicePack
<b>Recommended Service</b>	24x7 Onsite Service with 4h Onsite Response Time
<b>Product safety</b>	CE, UL/CSA
<b>Electromagnetic Compatibility</b>	CE, FCC Class A
<b>Electromagnetic Immunity</b>	CE, FCC
<b>CE certification</b>	2011/65/EC
<b>Approvals</b>	RoHS
<b>Environmental compliance</b>	RoHS compliant
<b>Compliance notes</b>	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.
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

In addition to Fujitsu ETERNUS CS8050 NAS, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

#### Dynamic Infrastructures

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#### Software

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

#### More information

Learn more about Fujitsu ETERNUS CS8050 NAS, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.fujitsu.com>

#### Fujitsu green policy innovation

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