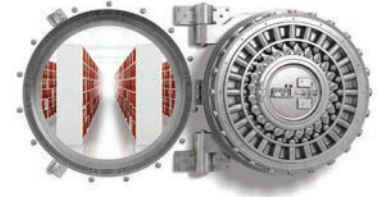# Data Sheet
Fujitsu ETERNUS CS800 S4

Data Protection Appliance: Backup to Disk with Deduplication.

ETERNUS CS Data Protection Appliance

Many IT departments are looking for solutions that provide faster backup and improved restores combined with the possibility of efficient disaster recovery and lower costs. Finding the right solution has become difficult. Traditional disk-to- disk solutions quickly become full and often leaving appliances with insufficient scalability and connectivity options. Software only solutions are often complex and provide limited effectiveness.

ETERNUS CS Backup appliances offer outstanding data protection for dynamic infrastructures. ETERNUS CS minimizes backup times and fulfills the recovery time objectives for all business critical environments.

ETERNUS CS S4

The Fujitsu ETERNUS CS800 backup appliance provides backup to disk with deduplication and radically reduced costs, through savings in the required storage capacity of up to 95%. It combines the broadest scalability and highest performance with leading value and unique extensibility in order to support a wide range of IT environments today and in the future. As a purpose-built solution it covers from 8 to 240TB of usable capacity in a single system, and provides the fastest backup performance achieving up to 10 TB/hour in conventional inline target mode, without restricting backup applications or requiring additional software installation.

Fujitsu ETERNUS CS800 gives IT departments optimal investment protection with a combination of maximum flexibility and value. All units provide simultaneous NAS, VTL, and OST interfaces, making it easy for users to add or change interfaces as their backup environments evolve. To keep costs low the appliance base price includes all software licenses, including deduplication, encrypted remote replication for

automated DR protection, direct tape creation for integrated long-term retention, an OST-interface for deep integration of Symantec backup software and a special mode for hybrid deduplication.

As an integrated and optimized appliance Fujitsu ETERNUS CS800 S4 is simpler to use, more efficient to operate and displays better results in deduplication - compared with pure software solutions in combination with standard disk systems.

Main features	Benefits
■ High capacity and performance while reducing costs	■ Maximum disk performance for better data protection
	■ Highest scalability from entry up to 240 TB
	■ Data deduplication technology reduces disk requirements
■ Improved and automated disaster recovery protection	■ Remote encrypted replication with reduced network bandwidth
	■ Reduced media handling and easy administration
	■ Supports Symantec OpenStorage (OST) and Path-to-Tape
■ Integration into dynamic infrastructures	■ Turnkey solution for easy and economical deployment
	■ Standard NAS or VTL interface for easy implementation and operation

Technical details

General system information

Base unit	Entry		Scale		
Performance (max.)	up to 5.5 TB/h		up to 10 TB/h		
Capacity	4.8 TB	9.8 TB	8 – 80 TB	16 – 160 TB	24 – 240 TB
Ethernet Ports (fixed)	5 x 1 GbE		3 x 1 GbE		
Standard software included	Deduplication, Path-to-Tape, Replication, OST				
Supported application	For the detailed support matrix please contact your Fujitsu sales representative				
Hot Spare Option	No		Yes		

Ethernet Connectivity (optional)

Base unit	Entry	Scale	
Ethernet Ports	2 x 10 GbE	4 x 10 GbE	8 x 1 GbE
	Optical 10GBASE-SR, MMF	Optical 10GBASE-SR, MMF	
NAS – supported protocols	CIFS, NFS		
NAS Shares (max.)	128		

Fibre Channel Connectivity (optional)

Base unit	Entry	Scale
Fibre Channel Ports	2 x 8 GbFC	4 x 8 GbFC
Partitions (max.)	64	64
Virtual Tape Cartridges (per partition)	9000	9000
Virtual Tape Drives (max.)	80	160
Tape Drive Emulations	DLT7000, LTO-1, LTO-2, LTO-3, LTO-4, LTO-5, SDLT 320, SDLT 600, SLT-S4	
Libraries Emulations	ADIC Scalar 24, Scalar 100, Scalar i2000, Scalar i500, Scalar i6000	
Notes	The following options are available:	
	8 x 1 Gb Ethernet, 4 x 10 Gb Ethernet, 4 x 8 GbFC	
	One of these 3 options has to be selected; Max. 2 of these 3 options can be combined. Combination of 1GbE and 10GbE is not possible	

Installation specification

Dimension (W x D x H) - standard	482.6 x 770 x 2U - 22U (1U = 44.45mm)
Weight	25kg - 375 kg
Power voltage	AC 200 - 240 V
Power frequency	50 / 60 Hz
Maximum Power Consumption	AC 200 - 240 V: min. 160W/ max. 2700W
	min. 180VA/max. 3000VA
Power phase	Dual

Environmental

Maximum Heat Generation	AC 200 - 240 V: min 580 kJ/h, max. 9720 kJ/h
	min. 547 BTU/h, max. 9220 BTU/h
Temperature (Operating)	15 - 35 ℃
Temperature (Not Operating)	15 - 35 ℃
Humidity (Operating)	20 - 80 % (relative humidity, non-condensing)
Humidity (Not Operating)	20 - 80 % (relative humidity, non-condensing)
Sound pressure (LpAm)	48 - 68
Operating environment	FTS 04230 – Guideline for Data Center (installation locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe

Technical details

Maintenance and Support Services

The perfect extension to product specific base warranty - for optimized operation.
Recommended Service: 24 x 7 Fujitsu support for enterprise class services.
Please check your specific service level with your FUJITSU sales organization or partner.

Compliance

Product safety	UL60950-1, CSA-C22.2 No. 60950-1, EN60950-1, IEC60950-1, GOST-R
Electromagnetic Compatibility	CNS 13438(C6357) Class A, FCC Part-15 Class A, ICES 003 class A, BSMI, C-Tick, VCCI Class A, CNS 13438(C6357) Class A, AS/NZ CISPR 22 Class A, EN55022 Class A
Electromagnetic Immunity	EN 55024
CE certification	Electromagnetic Compatibility Directive 2004/108/EC, Low Voltage Directive 2006/95/EC
Environmental compliance	RoHS-compliant (Restriction of hazardous substances), WEEE-compliant (Waste electrical and electronic equipment)
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	Compliance Link: https://sp.ts.fujitsu.com/sites/certificates/default.aspx

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For more information, please visit: http://solutions.us.fujitsu.com/ and http://twitter.com/fujitsuamerica

Fujitsu platform solutions

In addition to Fujitsu ETERNUS CS800 S4, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know- how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

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Computing products

www.fujitsu.com/global/services/computing/

- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical IA server
- ETERNUS: Storage system

Software

www.fujitsu.com/software/

- Interstage:
  Application infrastructure software
- Systemwalker:
  System management software

More information

Learn more about Fujitsu ETERNUS CS800 S4, please contact your Fujitsu sales representative, 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 resolve issues of environmental energy efficiency through IT. Please find further information at:
www.fujitsu.com/global/about/environment/

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