FUJITSU

Data Sheet
Fujitsu Storage ETERNUS CS800 M1

Data Protection Appliance for high performance backup to disk with deduplication

ETERNUS CS Data Protection Appliances

Data protection appliances and solutions from Fujitsu ensure data protection and 'always-on' availability across your hybrid cloud estate. Fujitsu's comprehensive range of backup and archiving solutions safeguard the right data service levels for the complete data lifecycle with the right protection and at optimized cost. The appliances protect sensitive data from threat, corruption, or loss addressing end-to-end operational security and data availability concerns from on-premises through to the cloud. The speedy recovery after downtime or ransomware attacks provides 24/7 business continuity, ensures highest data resiliency, and enhance your business agility.

The solutions comply with security, data, and industry regulations and transform your hybrid cloud into a genuine enabler for digital business growth, efficiency, and continuity.

ETERNUS CS800 M1

Fujitsu Storage ETERNUS CS800 disk-based backup appliance delivers simple, economical, and scalable data protection. The scale-out architecture makes it suitable for entry level to enterprise class environments.

The pay-as-you-grow expansion flexibility provides high investment protection. The intelligent deduplication algorithm reduces storage capacity by up to 95% delivering superior price-performance. Optimized security capabilities like multi-site replication, secure snapshot and encryption protect your data from theft, corruption, ransomware, or loss and ensure speedy recovery.

By supporting multiple protocols and all leading backup suites, the ETERNUS CS800 provides a perfect solution to consolidate your backup data. In addition, the tight integration of Veeam and Veritas software capabilities improves performance and ensures the 'always-on' availability across your hybrid cloud estate.

Features & Benefits

Main Features	Benefits
Flexible and efficient scale-out architecture with high scalability ■ Pay-as-you-grow with easy incremental upgrades ■ High density and efficient design	■ Provides high investment protection ■ Reduces floor space, power, and cooling cost ■ Suitable for small and remote offices to enterprise environments
High performance backup appliance with intelligent deduplication ■ Backup and restore with up to 99 TB/h data throughput ■ Variable-length deduplication algorithm	■ Cuts cost by reducing up to 95% disk capacity ■ Maximizes data reduction and minimizes network traffic
Optimized, secure data protection and automated disaster recovery ■ Implements industry-standard AES-256 bit encryption for data-at-rest ■ Multi-site, WAN-efficient replication and cloud hosted disaster recovery ■ Immutable storage with Secure Snapshot	■ High data resiliency across multiple sites in hybrid IT environments ■ Fast recovery in case of ransomware attack
Advanced reporting and tight integration into data-centric, hybrid cloud environments ■ Detailed view of appliance operations ■ Integrated Path to Tape Option ■ Multi-protocol support including NAS, VTL, Veritas OST and Veeam Data Mover Service	■ Streamlines performance while reducing overall cost ■ Reduces administration time and improves operations ■ Greater data insights support extended trend and backup analysis

Technical details

General system information

Base unit	SCALE	ENTERPRISE SD	ENTERPRISE HD	ENTERPRISE X
Performance (max. SPEED mode)	up to 95 TB/h	up to 98 TB/h	up to 98 TB/h	up to 99 TB/h
Performance (max.)	up to 35 TB/h	up to 64 TB/h	up to 64 TB/h	up to 63 TB/h
Note	The models ENTERPRISE SD/HD are available as ULTRA configuration, which provides more powerful CPU & Memory to support Veeam parallel streaming.			
	To the extent that specific performance specifications for the product are indicated in the product data sheet, these are usually also dependent on the specific use and workload of the product and may therefore not be reached equally in all application situations. Such performance specifications thus do not represent a specifically agreed characteristic or feature of the product, but only serves as an orientation. The responsibility for a sufficient sizing of the overall system functionality lies solely with the user.			
	ENTERPISE models are not available for APAC region			
Capacity (logical)	up to 6 PB	up to 20 PB	up to 20 PB	up to 40 PB
Capacity (net usable)	11 TB - 315 TB	51 TB - 1,020 TB	204 TB - 1,020 TB	204 TB - 2,040 TB
Capacity on Demand	16 TB base capacity, 18 TB incremental upgrades	51 TB incremental upgrades	51 TB incremental upgrades	102 TB incremental upgrades
Appliance Software functions	Deduplication Replication OST Path-to-Tape			
Ethernet Ports (fixed)	2 x 1 GbE 2 x 10 (SFP+ or TWINAX) GbE	2 x 1 GbE 2 x 10 (SFP+ or TWINAX) GbE	2 x 1 GbE 2 x 10 (SFP+ or TWINAX) GbE	2 x 1 GbE 2 x 10 (SFP+ or TWINAX) GbE

Ethernet Connectivity (optional)

Base unit	SCALE	ENTERPRISE
Ethernet Ports	Up to 4 of the following HBA including FC optional Quad-port 10 GbE (SFP+ or TWINAX) Quad-port 10 GBASE-T (RJ45) Dual port 25 GbE	Up to 4 of the following HBA including FC optional Quad-port 10 GbE (SFP+ or TWINAX) Quad-port 10 GBASE-T (RJ45) Dual port 25 GbE
NAS – supported protocols	CIFS, NFS	CIFS, NFS
NAS Shares (max.)	128	128

Fibre Channel Connectivity (optional)

Base unit	SCALE	ENTERPRISE
Fibre Channel Ports	Dual-port 16 GbFC	Quad-port 16 GbFC
Partitions (max.)	64	64
Virtual Tape Cartridges (per partition)	61,000	61,000
Virtual Tape Drives (max.)	150	512

Supported environments - excerpt

Supported backup and archiving software for open systems	Acronis (Cyber Protect) Arcserve (Backup, UDP) Atempo (Time Navigator) Bacula (Enterprise) Commvault Software Dell NetWorker HYCU Protégé IBM Storage Protect Micro Focus Data Protector Nakivo (BU and Replication) NovaStor (DataCenter) Oracle (RMAN) Veeam (Backup & Replication) Veritas (Backup Exec, NetBackup, System Recovery) SEP sesam - support on special request For additional information or applications not listed please contact your Fujitsu sales representative

Installation specification

Power voltage	AC 200 - 240 V

Installation specification

Base unit	SCALE	ENTERPRISE SD	ENTERPRISE HD	ENTERPRISE X
Dimensions (W x D x H)	434 x 678 x 86.8 mm 17.1 x 26.7 x 3.4 inch 2 U			
Weight	33.1 kg (73 lb)			

Environment

Temperature (not operating)	15 - 35 °C
Temperature (operating)	10 - 40 °C
Humidity (operating)	20 - 80 % (relative humidity, non-condensing)
Humidity (not operating)	20 - 80 % (relative humidity, non-condensing)
Altitude	3,000 m (10,000 ft.)
Sound pressure (LpAm)	45 - 55 dB(A)
Sound power (LWAd; 1B = 10dB)	6.6
Noise notes	Noise emissions and operation modes depend on system configuration.
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe

Warranty

Warranty period	1 year
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/warranty

Product Support - the perfect extension

Recommended Service	24x7 Onsite Service with 4h Onsite Response Time
Service Lifecycle	at least 5 years after shipment, for details see https://support.ts.fujitsu.com/
Service Weblink	www.fujitsu.com/services/product-services

Compliance

Product safety	CSA-C22.2 No. 60950-1, GOST-R, UL 60950-1, EN 60950-1, IEC 60950-1
Electromagnetic Compatibility	CNS 13438, FCC Part-15 Class A, ICES 003 Class A, BSMI Class A, C-Tick, AS/NZ CISPR 22 Class A, EN 55022 Class A, VCCI Class A
Electromagnetic Immunity	EN 55024
CE certification	2014/35/EU, 2014/30/EU, 2011/65/EU, 2009/125/EC
Approvals	CE, EAC, GS, FCC, RoHS, WEEE
Environmental compliance	RoHS compliant, WEEE compliant
Compliance notes	There is general compliance with the safety/EMC 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	https://sp.ts.fujitsu.com/sites/certificates

Notes

Compatibility	If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these component lists and compatibility specifications are exhaustive. Using deviating or other system components and applications together with the product may but does not necessarily have to lead to compatibility problems. A final statement and/or commitment on the compatibility of such deviating or other system components and applications can only be provided after a corresponding verification through a dedicated compatibility testing.
Security	The properties of the product provide a baseline for product security and therefore end-customer IT security. However, these properties are not sufficient on their own to protect the product from all existing threats, such as intrusion attempts, data exfiltration and other forms of cyberattacks. To customize security settings, please use the configuration options as available for the respective product. During operation, the IT security of this product is within the responsibility of the respective administrator/end-user of the product. Please note, that Fujitsu as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation.

Notes

Continuity management	The product may in connection with and depending on the specific configuration include elements to support time- and performance-critical applications, however high availability (e.g., 99.9999%) and failsafe performance is not a standalone product feature. If and to the extent the product is to be used in such business-critical environments, it is within the sole responsibility of the user to set up the specific additional technical features (e.g., Storage Cluster), redundancies, and operational conditions as required to ensure such high availability or failsafe performance.
Software	Use of certified or supported operating systems and virtualization software is subject to proactive acceptance of the respective License Agreements/ EULAs/ Subscription and support terms of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional. The software may only be available bundled with a software support subscription which – depending on the Software - may be subject to separate remuneration.
	Use of accompanying and/or additional Software is subject to proactive acceptance of the respective License Agreements /EULAs/ Subscription and support terms of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional. The software may only be available bundled with a software support subscription which – depending on the Software - may be subject to separate remuneration.

Fujitsu products, solutions & services

In addition to FUJITSU ETERNUS CS800 M1, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Build 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 offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Storage Products
https://www.fujitsu.com/global/products/computing/storage/

Software
https://qsweb.quantum.com/downloads/Fujitsu/

More information

Learn more about Fujitsu ETERNUS CS800 M1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
https://www.fujitsu.com/global/products/computing/storage/data-protection/cs800/index3.html

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