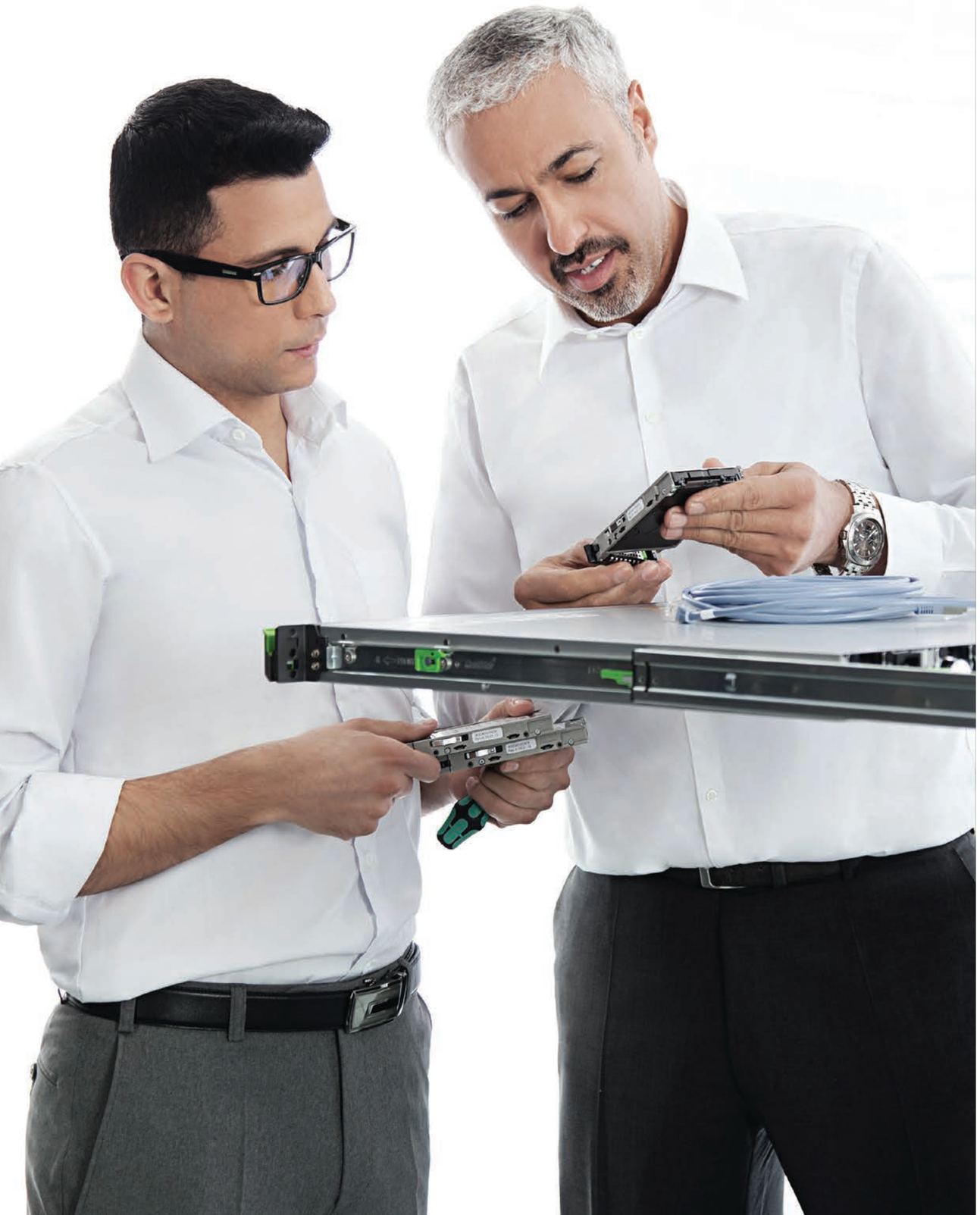
Business-Centric IT Platform:
Meeting your business goals of today and future

shaping tomorrow with you

FUJITSU



The new role of information and communication technology

The cloud era as well as the new Internet of Things has created an unprecedented explosion of data and digital information which are essential to generate new business. The number of sent and received mails, the processed data, inquiries on search engines, the use of social media platforms, and last but not least the transported data through global networks, increase disproportionately. The impacts on data centers are tremendous. The demands on IT organizations have never been greater - the number, complexity, and required performance of applications continue to increase while budgets and data center space are always limited. For many date centers, IT infrastructure and operations have reached a breaking point; incremental improvements no longer work. It's time for platform infrastructure that works more efficient and agile, to enable a more resilient and reliable operation.

To be able to respond to these challenges, FUJITSU offers one of the broadest portfolios of servers and storage systems in the market ranging from industry standard x86 PRIMERGY servers, mission-critical x86 PRIMEQUEST systems, UNIX/SPARC servers to ETERNUS storage systems to offer the right combination of systems, solutions and know-how to our customers.

FUJITSU Server and Storage System

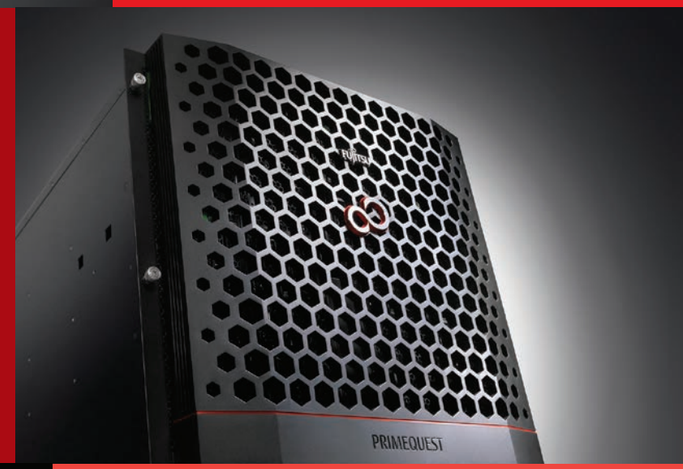
Innovate and modernize ICT in your organization

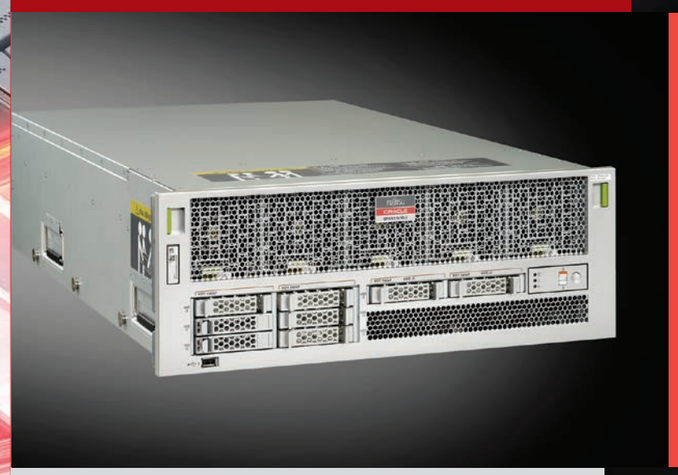
FUJITSU Server PRIMERGY

Industry's most complete x86-based portfolio for companies of all sizes, across all industries and for any type of workload.

FUJITSU Server PRIMEQUEST

Enhance the economic benefits of x86 industry standards complemented with a fault immune system architecture.



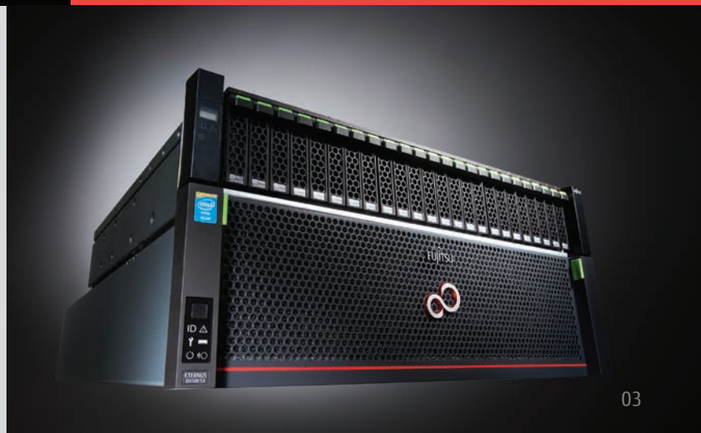


FUJITSU M10 Server

Unmatched scalability of up to 64 SPARC processors together with highest RAS features and a modular architecture.

FUJITSU Storage ETERNUS

Enable customers to build and operate Dynamic Infrastructures for data management and protection.



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IT Solution Excellence PCM 2014

PCM Biz IT EXCELLENCE 2014

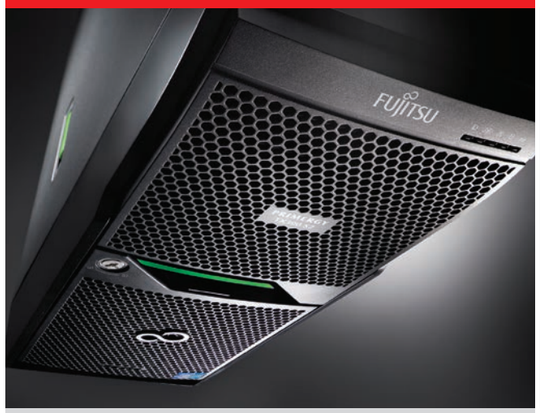
CAPITAL 智選品牌大獎 PROchoice 2012

PC3 Corporate CHOICE 2009

Industry's most complete x86-based portfolio

Tower Systems

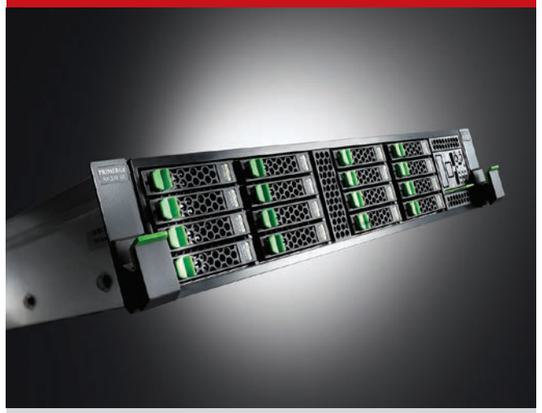
PRIMERGY



Expandable tower servers ideal for branch offices, remote offices and small businesses.

Rack Systems

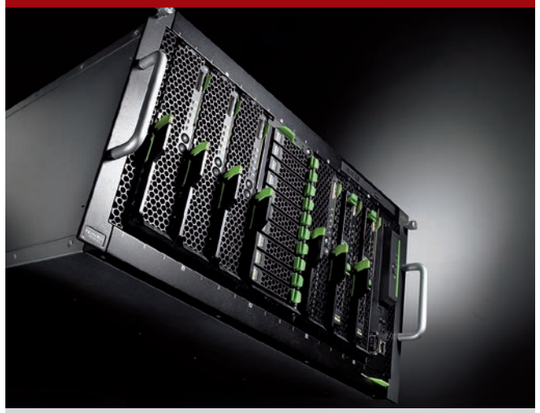
PRIMERGY



Versatile and scalable rack-optimized servers with leading efficiency and performance.

Blade Systems

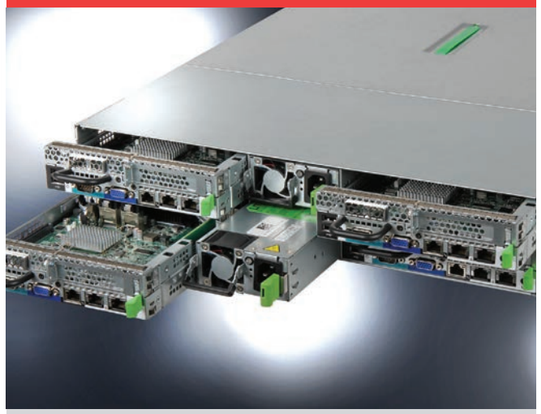
PRIMERGY



Platform for converged infrastructures engineered to maximize every hour, watt, and dollar.

Cloud Systems

PRIMERGY



Density optimized cloud server infrastructures for Cloud, HPC and large scale-out computing.

High Availability with Japanese Quality

Stringent quality assurance measured at the state-of-the-art IT factory in Japan guarantees an extremely high rate of availability.

Excellent Price/Performance Ratio

PRIMERGY servers are world record breakers when it comes to performance, and rank highly for database and ERP benchmarks. Over several generations PRIMERGY servers have been optimized for virtualization and cloud environments.

Energy and Cost Saving Data Centers

With Cool-safe® ATD cooling technology and improved power management tools, PRIMERGY servers can support a wider range of temperatures, reducing the risk of heat-related downtimes and doubling the lifespan (MTBF) of electronic components. Enterprises can save up to 27% in energy costs for cooling.

Comprehensive Management

ServerView® Suite offers comprehensive administration that covers the entire lifecycle of individual servers as well as entire server parks. It dramatically reduces the time required for server deployment, maintenance and provisioning by up to 90%.

Global Lifecycle Excellence

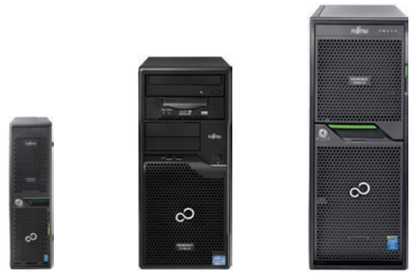
The wide-ranging Fujitsu portfolio of services and tools helps you to reduce costs throughout the lifecycle, shorten project times and increase the availability of applications and services.

Made in Japan

intel inside™ XEON®

The efficient, flexible foundation for business growth

PRIMERGY Tower Systems

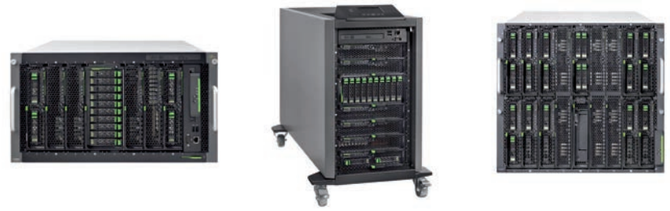


Type	Specifications			Products
Mono	PSU Redundancy: None	Size / Max. Scalability	Standard / 4 HDDs & 32 GB RAM	TX1310 M1
			Ultra-compact / 6 HDDs & 32 GB RAM	TX1320 M1
	PSU Redundancy: Required	Max. Scalability	8 HDDs & 32 GB RAM	TX1330 M1
			16 HDDs & 96 GB RAM	TX150 S8
Dual	Scalability	High (up to 6 PCI Slots / 24 HDDs)		TX2540 M1
		Maximum (10 x PCI slots / 24 x HDDs. 2 x GPGPU)		TX300 S8

PRIMERGY Rack Systems

Type	Specifications		Products
Mono	1U (3 x PCI slots. 4 x HDDs)		RX1330 M1
Dual	Max. Performance: Essential performance		RX2520 M1
	Max. Performance: Height Units / Scalability	1 U / high (4 x PCI slots. 8 x HDDs)	RX200 S8
		1U / high (4 x PCI slots, 10 x HDDs)	RX2530 M1
		2U / very high (7 x PCI slots. 16 x HDDs)	RX300 S8
		2U / very high (8 x PCI slots. up to 24 x HDDs)	RX2540 M1
		4 U / maximum (10 x PCI slots 24 x HDDs. 2 x GPGPU)	RX350 S8
Quad	Optimized for	OLTP and in-memory solutions	RX4770 M1

PRIMERGY Blade Systems



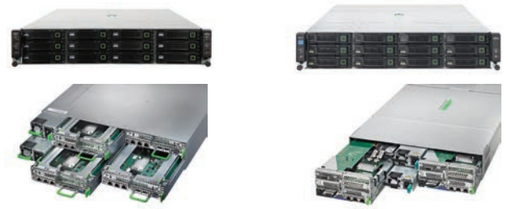
PRIMERGY BX400
- 6U chassis for 19-inch racks or floorstand version
- 8 slots for server-or storage blades
- 4 slots for connection blades

PRIMERGY BX900 S2
- 10U chassis for 19-inch racks
- 18 slots for server- or storage blades
- 8 slots for connection blades

Server & Storage Blades	Specifications		Products
Server Blade	Memory Expandability	4 - 768 GB (12 DIMM DDR3)	BX920 S4
		4 - 1532 GB (24 DIMM DDR3)	BX924 S4
		8 - 1024 GB (16 DIMM DDR4)	BX2560 M1
		8 – 1536 GB (24 DIMM DDR4)	BX2580 M1
Storage Blade Disk	Type	Direct-attached storage	SX960 S1
		Centralized storage	SX980 S2

PRIMERGY Scale-out Systems

for HPC and Cloud Computing



PRIMERGY CX400 M1
- 2U chassis for 19-inch racks
- Slots for 2-4 computing nodes
- Up to 24 x 2.5-inch storage drives

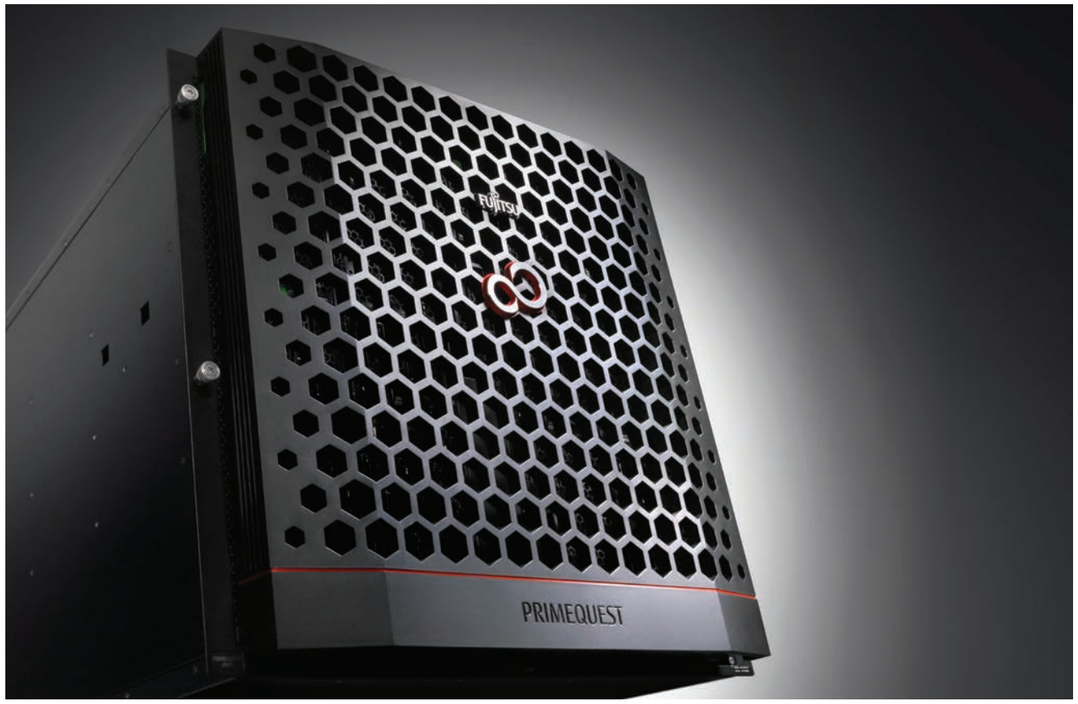
Usage Scenario Type	Specifications		Products
HPC, Scale-out	Co-processor Support / Density	1U, no co-processor support	CX2550 M1
		2U, co-processor & GPGPU support	CX2570 M1

PRIMERGY CX420 S1
- Out-of-the-box dual node cluster for Microsoft Windows Server 2012
- 2U chassis for 19-inch racks
- Up to 12 x 3.5-inch storage drives

Usage Scenario Type	Specifications	Products
High Availability Cluster	Strong Performance, Cluster Ready	CX272 S1

Mission critical x86 open platform

PRIMEQUEST Servers



High-End Mission-Critical Server for Windows and Linux

The Mission Critical IA Server PRIMEQUEST provides high-end server functionality using Fujitsu's world-class technology, cultivated and refined over generations of computer system development. PRIMEQUEST embodies the best characteristics of mainframe and UNIX server reliability, supercomputer high-performance, and the cost and flexibility benefits of open systems.

- Built on Fujitsu's heritage in performance and reliability
- Best performance open platform combined with in-memory database
- Elimination of downtime by Dynamic Reconfiguration and Reserved System Board
- Cost-efficient platform for easy server consolidation by Physical Partitioning.

intel inside™ XEON®

Open System with Mainframe-class RAS

Integrating the robust performance of Intel® Xeon® processors, together with Fujitsu's design prowess in high RAS technology, PRIMEQUEST delivers Linux® and Windows® reliability that is head and shoulders above the competition.

Scalability for Highest Data Throughput

Availability of choices according to business needs. PRIMEQUEST 2800E and 2800B with 2.5 times the performance scalability can accommodate higher enterprise workload.

Lower Operational Costs

Thanks to the small chassis and lower power consumption, PRIMEQUEST helps save datacenter costs while providing highest level of performance.

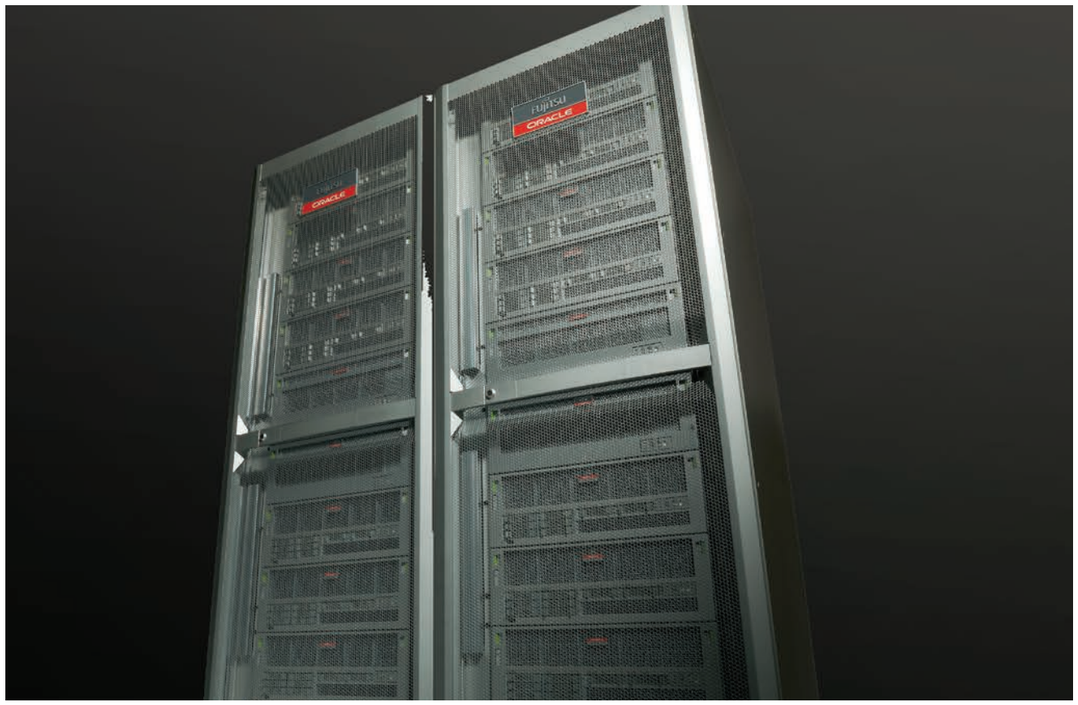
Complete Redundancy for Business Continuity

Unique levels of redundancy eliminates causes of major system failure. Dynamic Reconfiguration helps recover from failure without system interruption.

Usage Scenario	Type	Specifications		Products	Mission-Critical Features
Large In-Memory Computing Databases	Quad	Mission-critical workloads		2400E	Yes – Reserved System Board, Flexible I/O, Dynamic Reconfiguration, red. MMB, hot-plug PCIe
Large Database consolidation	Octo	Optimized for ...	Mission-critical workloads	2800E	
Legacy Modernization			Business-critical workloads	2800B	No
High performance ERP					

Mission critical SPARC / Oracle platform

FUJITSU M10 Servers



Fujitsu M10 servers are flexible and scalable UNIX systems that deliver high performance and mission-critical RAS for heavy workloads. These servers provide unmatched scalability from 1 to 64 CPUs, utilizing a modular architecture that allows enterprises to start with only what's needed today, and expand as their business grows. Featuring breakthrough technology including Software on Chip and Liquid Loop Cooling, Fujitsu M10 servers provide highly flexible system configurations with physical partitioning as well as built-in, low-cost virtualization technologies via Oracle VM Server for SPARC and Oracle Solaris Zones.

SPARC64

Extreme Cost Saving on OPEX and CAPEX

Cost Saving

Two-pronged approach of core-based CPU activation and modular building-block architecture allows you to buy what you need now and pay as you grow, which greatly contributes to cost saving in CAPEX. Built–in virtualization features like physical partitions and Oracle VM server, coupled with Liquid Looping Cooling technology, significantly reduce running cost in operation.

Real-Time Business Decisions

Real-Time

Mainframe-class RAS allows Fujitsu M10 to run most demanding 24x7 database applications in high speed and low access time between memory and CPU, using parallel computing and Software on Chip technology.

Accelerating Server Evolution

Accelerating

Traditional techniques of vertical up-scale and horizontal out-scale to expand systems have problems in processing large and unprecedented volume of data. Using a modular architecture, Fujitsu M10 can avoid these problems.

World's Leading Performance Benchmark

Benchmark

Leading performance in major benchmark tests demonstrate that Fujitsu M10 is designed to provide extreme performance for a wide range of enterprise applications.

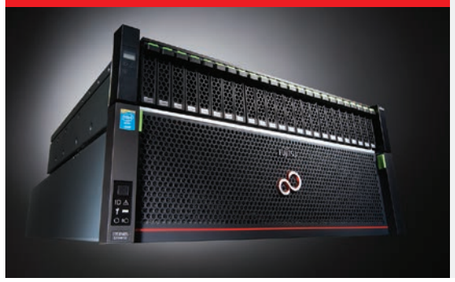
Usage Scenario	Type	Specifications	Products
Data Center consolidation	Mono	1U / 3 x PCIe 3.0 / 2 x10 expansion units	M10-1
Database performance acceleration	Quad	4U / 11 x PCIe 3.0 / 6 x10 expansion units	M10-4
High speed data analysis	Modular System	4U / 8 x PCIe 3.0 / 5 x10 expansion units	M10-4S
Mission-critical applications	Modular System	Height units / Scalability → Cabinet / 64 x PCIe 3.0 / 40 x IO expansion units	M10-4S (8BB)
Build-in Virtualization	Modular System	Height units / Scalability → Cabinet / 128 x PCIe 3.0 / 80 x IO expansion units	M10-4S (16BB)

Business-centric storage system

FUJITSU Storage

When it comes to business-centric storage, you can rely on a single provider with more than 50 years experience in managing and storing enterprise data. Fujitsu's ETERNUS DX disk systems and ETERNUS CS data protection appliances allow customers to flexibly manage their increasing data volumes at lower cost, benefitting from a reliable architecture and simplified operations.

Disk Storage Systems

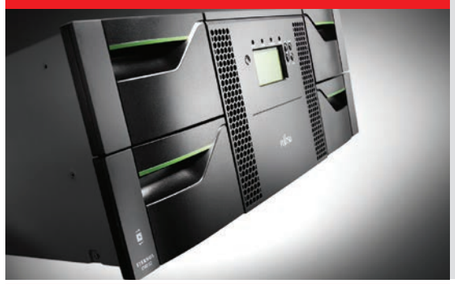


ETERNUS DX Family

Leading performance increases system utilization and consolidation resulting in a faster ROI

The ETERNUS DX Series combines storage capabilities with business priorities, enabling high system utilization and consolidation within a leading performance architecture and quality service management.

Tape Storage Systems



ETERNUS LT Family

Highly automated, simple and remote operation without any demand for local expert skills

The cost-effective ETERNUS LT tape systems offer impressive scalability and reliability. They are well suited for SMBs and certified to work with market-leading backup and archiving software.

Data Protection Appliances

ETERNUS CS Family

ETERNUS CS data protection appliances radically simplify backup and archive infrastructures by aligning storage resources with business priorities

ETERNUS CS800 is a turn-key data protection appliance providing simple and affordable solutions for customers, following a disk backup strategy with deduplication.

ETERNUS DX Disk Storage Systems

Specifications			Products	Max. Drives	Host Interface
None	Connectivity / Scalability	max. 4 host ports/ 24 drives (96 TB)	DX60 S3	24 x SAS / Nearline SAS	Up to 8 Gbit/s FC / 1 Gbit/s iSCSI / 6 Gbit/s SAS
Remote		max. 8 host ports/ 144 drives (576 TB)	DX100 S3	120(3.5") / 120(2.5") x SAS / Nearline SAS / Enterprise SSDs	10 Gbit/s FCoE / 10/1 Gbit/s iSCSI,16/8/4 Gbit/s FC, File: 10/1 Gbit/s Ethernet
		max. 8 host ports/ 264 drives (1056 TB)	DX200 S3	120(3.5") / 240(2.5") x SAS / Nearline SAS / Enterprise SSDs	10 Gbit/s FCoE / 10/1 Gbit/s iSCSI,16/8/4 Gbit/s FC, File: 10/1 Gbit/s Ethernet
Required	Connectivity / Scalability	max. 16 host ports/ 528 drives (2112 TB)	DX500 S3	240(3.5") / 480(2.5") x SAS / Nearline SAS / Enterprise SSDs	10 Gbit/s FCoE / 10/1 Gbit/s iSCSI,16/8/4 Gbit/s FC, File: 10/1 Gbit/s Ethernet
		max. 32 host ports/ 1056 drives (4224 TB)	DX600 S3	480(3.5") / 960(2.5") x SAS / Nearline SAS / Enterprise SSDs	10 Gbit/s FCoE / 10/1 Gbit/s iSCSI,16/8/4 Gbit/s FC, File: 10/1 Gbit/s Ethernet
		max. 128 host ports/ 3072 drives (6144 TB)	DX8700 S2	Up to 3,072 xSSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5")	Up to 16 Gbit/s FC /10 Gbit/s FCoE, 10/1 Gbit/s iSCSI

ETERNUS CD10000

Hyper-scale Storage Appliance

Description	At a Glance	Host Connectivity Options	Software Version
The Fujitsu ETERNUS CD10000 is a turnkey end-to-end solution based on Ceph and industry standard technology. A robust storage architecture for the cloud era. This hyperscale, software-defined system is designed for all environments, able to cope with massive online data volumes and offers almost unlimited scalability at consistently high levels of performance.	• Nearly unlimited and flexible scalability of capacity and performance • Fault tolerance and self-healing by design • Based on Ceph Open Source storage software • Supports object, file and block storage • Appliance with end-to-end maintenance • High performance through high parallelism of read and write operations	Unified : Block, File and Object	Based on Open Source Ceph storage software

Business-centric storage system

ETERNUS CS800
Data Protection Appliance

Specifications	Products	Key Feature	Data Protection Funtions	Usability
Usable Capacity after Data Reduction: 4 -24 TB	CS800 S5 Entry	Deduplication	Disk-based backup and recovery, replication path-to-tape, multiprotocol support (NAS, VTL, OST) backup target in the cloud	Easy setup in just a few steps, automated operation, simple user interface for maintenance and analytics
Usable Capacity after Data Reduction: 16 -320 TB	CS800 S5 Scale			

ETERNUS CS8000 V6
Unified Data Protection Appliance

Specifications	Products	Backup	Archive / Second-tier Files
Architecture Type: scale-up 7 TB-1.3 PB, up to 30 TB/h	CS8200	Host connectivity: VTL, VTL with Dedup (FC 16 Gb / FICON 8 Gb) Virtual tape drives: 32 - 64 (CS8200) / 32 - 1280 (CS8400, CS8800) Back-end tape support	Host connectivity: NAS (NFS / CIFS), 1 GbE or 10 GbE Number of Files: 2 Billion Back-end tape support wth CS8400, CS8800
Architecture Type: single-site	CS8400		
Architecture Type: Cache Mirror split-site (scale-out 7 TB - 22 PB, up to 150 TB/h)	CS8800		

ETERNUS LT Tape
Storage System

Specifications	Products	Interface	Max. Drives	Description
No. of Slots / Max. Capacity (native): 1 slot / up to 2.5 TB	LTO Desktop	SAS	1	LTO-4 / LTO-5 / LTO-6 drive with 0.8 TB (LTO-4), 1.5 TB (LTO-5) or 2.5 TB (LTO-6) capacity native
8 slots / up to 20 TB	LT20 S2	SAS or FC	1	LTO-4 / LTO-5 / LTO-6 drive with 6.4 TB (LTO-4), 12 TB (LTO-5) or 20 TB (LTO-6) capacity native
12-24 slots / up to 60 TB	LT40 S2	SAS or FC	2	LTO-4 / LTO-5 / LTO-6 drive with 9.6 - 19.2 TB (LTO-4), 18 -36 TB (LTO-5) or 30 -60 TB (LTO-6) capacity native
24-48 slots / up to 120 TB	LT60 S2	SAS or FC	4	LTO-4 / LTO-5 / LTO-6 drive with 19.2 - 38.4 TB (LTO-4), 36 -72 TB (LTO-5) or 60 -120 TB (LTO-6) capacity native
18-160 slots / up to 400 TB	LT260	SAS or FC	12	LTO-5 / LTO-6 drive with 120 - 240 TB (LTO-5) or 200 -400 TB (LTO-6) capacity native

ETERNUS SF
Flexible Data Management

Description	ETERNUS SF at a Glance
ETERNUS SF storage management software is the uniform management solution for the entire ETERNUS DX series. All essential operations for storage resource management, monitoring, reporting, tiered storage, performance management, disaster resilience and business continuity are integrated. The uniform management for the entire storage infrastructure covers all ETERNUS DX disk storage systems from entry-level through the high-end as well as virtualized server infrastructures.	■ Management of all infrastructure devices based on a unified view ■ Visualization of the relations between storage, network and physical servers or virtual servers ■ Early detection and elimination of performance issues through performance monitoring ■ Reduced initial system infrastructure through thin provisioning ■ Fault management with support for fault resolution vHardware investment optimization through automated storage tiering ■ Reduced storage system power consumption ■ Central management for local and remote replication ■ Enhanced business continuity with transparent failover ■ Automated Quality-of-Service management

ETERNUS Snapshot Manager
Efficient Snapshot Management

Description	ETERNUS SF at a glance
The ETERNUS Snapshot Manager (ESM) is a feature rich software to manage and catalog application-consistent hardware snapshots of ETERNUS DX arrays without scripting. The software offers granular recovery of data across physical and virtual environments to minimize downtime and enhance business productivity.	■ Manages and catalogs application-consistent hardware snapshots of ETERNUS DX arrays without scripting ■ Application-consistency increases protection for mission-critical data with low production impact ■ Snapshot support for industry's broadest application and file systems eliminates multiple management and operational costs ■ Granular and consistent recovery of applications and files speeds up and simplifies recovery process

In the Words of Our Customers

" We were most impressed by Fujitsu's track record in data center and their customer-centric approach. They score high in reliability and are patient to understand our needs. Few in the market gave us as much confidence in providing such sophisticated end-to-end solutions. We look forward to enjoying the long term benefits from our new ICT systems and data center services."

Richard Chen, CEO, Core Pacific – Yamaichi
(PRIMERGY servers and ETERNUS storage systems are used to build Core Pacific – Yamaichi's data center infrastructure)

" The Fujitsu ETERNUS solution is scalable to 1PB which blew the competition away. Fujitsu also represented the best price-performance with minimal commercial risk."

John Higgins, IT Manager, Tendring District Council

" The highly professional and fast support we have received from Fujitsu during our collaboration has always helped us a great deal, and is a key reason why we chose to work with this long-term partner." (The ETERNUS DX500 S3 storage system makes life easy for EOS Group and its continual growth)

Dr. Thorsten Kleinwort, Data Center Manager, EOS IT Services

" The decision to partner with Fujitsu was influenced by its innovation in sustainability ... and its long term commitment to sustainable data centre environments"

University Alliance

" The raw performance is extraordinary and we now supply Cloud services to five different media companies who each have their own virtual data centre. This enables them to broadcast valuable content in a totally secure and seamless fashion."

Martin Bradburn, CEO, Pea Soup
(Pea Soup uses PRIMERGY Servers for building its Cloud business)

" Swedish public utility upgrades to Fujitsu M10-4 Servers to modernize billing and statistics of the state's high-voltage electrical distribution networks."

Saeid Firuzabadi-Bonab, System Administrator, Svenska Kraftnät

" Fujitsu's IT equipment initiatives offered savings of 43%... building on the business' environmental strategies."

TOYOTA

" We wanted to reorganize our data center to cut costs and energy consumption, but also to improve our services. By selecting Fujitsu blade servers, we were able to achieve these goals."

Marcello Missagia, Director of GIS Information Technology and Statistics, Vicenza Municipal Authority

" Our systems were unable to effectively catch up with the expansion of our business in APAC. So we were keen to find a reliable partner to help us with this situation. We were impressed by the comprehensive services offered by Fujitsu. Throughout the whole process we are confident that we are in capable hands."

Fergus Tooher, VP, Information Technology ThyssenKrupp Elevator AG, Asia Pacific
(ThyssenKrupp uses PRIMERGY servers and ETERNUS storage systems to build its IaaS for SAP hosting)

" We can now produce detailed reports that help inform our decision making and control our inventory more effectively. Smart decisions need smart information and that is what this new server environment provides." (DIS Migrates Private Cloud to Fujitsu PRIMERGY Blade Servers)

Goran Rakić, IT Director, DIS

" Fujitsu's servers and storage systems cut CO2 emissions by 40%. We were determined to streamline operations ... and to help the environment"

Hokiruku Bank

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