Server, Storage & Integrated Systems Family Guide

Your fast lane to PRIMERGY / PRIMEQUEST servers, ETERNUS storage and PRIMEFLEX Integrated Systems

FUJITSU

Microsoft

Windows Server: Power your business

shaping tomorrow with you

Digitalization: Your Data Center is the foundation
FUJITSU Business-Centric Data Center

We live in a world where people are constantly connected. As individuals we want more intuitive services. Be it large or small and medium-sized businesses, both must adapt to this rising demand and what it means for their ICT. It all depends on what you do with your IT. There can be no 'one-size-fits-all' approach to your data center. So we start with your business priorities then match the right mix of products, services and solutions. That way you get an end-to-end approach that can deliver what your enterprise demands.See how Fujitsu can help large or growing businesses achieve their business objectives.

On Premise - Hybrid IT - In the Fujitsu Cloud

Managed by yourself - Managed by Fujitsu

Robust IT - Bimodal - Fast IT

Business-Centric COMPUTING

Fujitsu Business-Centric Computing will give you the servers you need to power any workload and changing business requirements.

Business-Centric STORAGE

Fujitsu ETERNUS Business-centric Storage supports your business better to help you achieve your goals.

Business-Centric INTEGRATED SYSTEMS

Building data center infrastructure is often complex and time-consuming. You'll know the do-it-yourself approach can be risky and expensive. With Fujitsu Business-Centric Integrated Systems you can make the difference.

FUJITSU Server Enterprise Products
Ensure your servers serve the business

FUJITSU is the leading ICT provider with an entire portfolio of IT products, solutions and services – from notebooks, tablets, PCs and data center solutions up to managed services and cloud solutions. FUJITSU servers provide the basis to set up the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes industry standard PRIMERGY servers, mission-critical PRIMEQUEST systems and SPARC/UNIX servers to be able to offer the right combination of systems, solutions and know-how to guarantee maximum productivity, efficiency and flexibility.

Optimized x86 server portfolio to power any workload and business demand

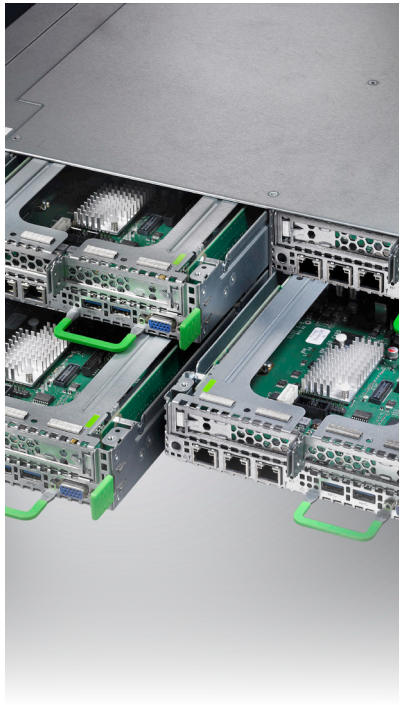
Perfect for SMB's, branches and office environments

Robust and cost-efficient servers characterized by simple and quiet operations

Core Business and Data Demanding Applications

Versatile rack servers with leading efficiency and performance

HPC, Cloud, Technical Computing and Deep Learning



Modular and density-optimized servers to scale efficiently

Business and Mission-critical environments

Business continuity for permanent data access and use cases such as in-memory computing

Operation and Management

Efficient operation and management of IT infrastructures and equipment

FUJITSU Server PRIMERGY Tower and Rack Systems

The efficient, flexible foundation for business growth

Quickly changing business requirements need an IT infrastructure that guarantees maximum productivity, cost efficiency, agility and are easy to integrate in any existing environment. Be it a department server or a large data center solution, FUJITSU Server PRIMERGY systems and solutions can meet these requirements for companies of all sizes and provide a cost-effective and adaptable range of services.

PRIMERGY TX Server

Type	Specifications			Products	Processor	Memory	Storage	Ordercodes / Comments
Mono	Essential Workloads	Compact	4 PCI slots / up to 4 x HDDs 1x standard power supply	TX1310 M3	Intel® Xeon® E3v6, Core i3®, Pentium®, Celeron®	4 – 64 GB 4 DIMM DDR4	4 x 3.5" SATA	
Mono	Standard Workloads	Ultra-compact	4 PCI slots / up to 8 x HDDs/SSDs Hot-plug power supply	TX1320 M3	Intel® Xeon® E3v6, Core i3, Pentium®, Celeron®	4 – 64 GB 4 DIMM DDR4	2 x 3.5" SATA or 8 x 2.5" SATA/SAS	
Mono	Standard Workloads	Redundancy	4 PCI slots / up to 24 x HDDs/SSDs Redundant fans/ Hot-plug PSU	TX1330 M3	Intel® Xeon® E3v6, Core i3®, Pentium®	4 – 64 GB 4 DIMM DDR4	12 x 3.5" SATA/SAS or 24 x 2.5" SATA/SAS	
Dual	High Workload Versatility	Performance + Scalability	8 PCI slots / up to 32 x HDDs/SSDs Redundant fans/ Hot-plug PSU	TX2550 M4	1-2 x Intel® Xeon® Scalable Family	4 – 768 GB 12 DIMM DDR4	12 x 3.5" SATA/SAS or 32 x 2.5" SATA/SAS	

PRIMERGY RX Server

Type	Specifications			Products	Processor	Memory	Storage	Ordercodes / Comments
Mono	1U (3 x PCI slots, 4 x HDDs)			RX1330 M3	Intel® Xeon® E3v6, Core i3®, Pentium®	4 – 64 GB 4 DIMM DDR4	4 x 3.5" SATA/SAS or 10 x 2.5" SATA/SAS	
Dual	Essential performance	Height units / scalability	1U / low 4 x PCI slots, 4 x HDDs/SSDs	RX2510 M2	1-2 x Intel® Xeon® E5-2600v4	4 – 384 GB 24 DIMM DDR4	4 x 3.5" SATA/SAS or 4 x 2.5" SATA/SAS	
Dual	Essential performance	Height units / scalability	2U / high 6 x PCI slots, up to 24 x HDDs/SSDs	RX2520 M4	1-2 x Intel® Xeon® Scalable Family	4 – 384 GB 12 DIMM DDR4	12 x 3.5" SATA/SAS or 24 x 2.5" SATA/SAS	
Dual	Max. performance	Height units / scalability	1U / high 4 x PCI slots, 10 x HDDs/SSDs	RX2530 M4	1-2 x Intel® Xeon® Scalable Family	8 – 3072 GB 24 DIMM DDR4	4 x 3.5" SATA/SAS or 8x/10x 2.5" SATA/SAS	
Dual	Max. performance	Height units / scalability	2U / very high (8 x PCI slots, up to 28 x HDDs/SSDs	RX2540 M4	1-2 x Intel® Xeon® Scalable Family	8 – 3072 GB 24 DIMM DDR4	12x 3.5" SATA/SAS or 28 x 2.5" SATA/SAS	
Quad	Max. memory expansion		2U/ 8 x PCI slots, up to 16x HDDs/SSDs	RX4770 M4	2-4 Intel® Xeon® Scalable Family	16 GB - 6 TB 48 DIMM DDR4	16 x 2.5" hot-plug SAS/SATA/PCIe	

FUJITSU Server PRIMERGY Scale-out Systems

Platform for cloud, HPC, and large scale-out computing

FUJITSU Server PRIMERGY CX scale-out systems are built for cloud computing scenarios, high performance computing, service providers and large server farms. They focus on providing large datacenters with massive scale-out x86 server power while at the same time delivering best economics for server density, energy consumption, heat optimization and lower overall operational costs.massive scale-out x86 server power while at the same time delivering best economics for server density, energy consumption, heat optimization and lower overall operating costs.

Workload-specific power in a compact and modular form factor

The PRIMERGY CX400 M4 is a modular enclosure for the Fujitsu scale-out ecosystem that combines the density and efficiency of blade-like servers with the simplicity and cost benefits of rack-based systems.

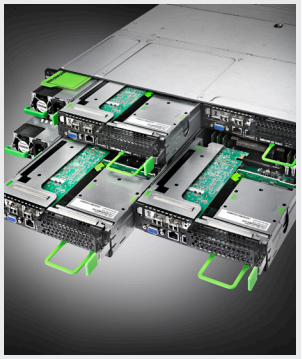
PRIMERGY CX400 M4

Use Cases	Specifications		Products	Processor	Memory	Details	Ordercodes / Comments
■ VDI ■ Virtualization ■ Cloud ■ Web Services ■ HPC ■ Technical Computing ■ AI ■ Deep Learning	Chassis	2U / up to 24 x 2.5" storage drives Redundant, hot-plug components	CX400 M4	-	-	4 bays for nodes Mix of different nodes	
	Server Nodes	Cloud/HPC optimized server node	CX2550 M4	1-2 x Intel® Xeon® Scalable Family	8 - 2048 GB 16 DIMM DDR4	Omni-Path support Air- or liquid cooling	
		All-round server node	CX2560 M4	1-2 x Intel® Xeon® Scalable Family	8 - 2048 GB 16 DIMM DDR4	6x 2.5" storage drives DynamicLoM + 2x PCIe	
		HPC/VDI optimized server node	CX2570 M4	1-2 x Intel® Xeon® Scalable Family	8 - 2048 GB 16 DIMM DDR4	Up to 4x GPU's Air- or liquid cooling	

Your platform for highly parallel computing

The PRIMERGY CX600 M1 is the perfect choice for highly parallel applications in the area of scientific research, product development and business intelligence.

PRIMERGY CX600 M1



Use Cases	Specifications		Products	Processor	Memory	Details	Ordercodes / Comments
■ HPC ■ AI ■ Deep Learning ■ Scientific Research ■ Business Intelligence ■ Weather Forecasting ■ Analytics ■ Financial Engineering	Chassis	2U chassis for 19-inch rack 4x hot-plug power supply units	CX600 M1	-	-	8 bays for nodes Air- or liquid cooling	
	Server Nodes	Parallel computing server node	CX1640 M1	1 x Intel® Xeon® Phi™ 7200	16 - 384 GB 6 DIMM DDR4	up to 2x 2.5" SSD 16 GB CPU-integrated MCDRAM memory	

FUJITSU Server PRIMEQUEST Systems

Scalable platform for business-critical and mission-critical applications

Fujitsu Server PRIMEQUEST systems offers unprecedented x86 performance and memory expandability for resource-intensive applications. By uniting the x86 industry standards with mission-critical features, PRIMEQUEST systems delivers availability levels similar to those of UNIX systems – but with the cost advantages of an x86-based architecture.

Superior performance and reliability for business-critical workloads with optimized economics

Featuring the latest Intel® Xeon® Processor Scalable Family with up to 28 cores per processor and fastest available DDR4 memory modules with 12TB total capacity, the PRIMEQUEST 3800B improves performance for in-memory databases such as SAP HANA® and real-time data analytics. Along with uncompromising performance, the PRIMEQUEST 3800B's optimized economics in a compact 5U chassis and advanced RAS features that prevent errors in advance, make it the right choice for demanding corporate databases, in-memory solutions and business-critical applications.

	Type	Use Cases	Products	Processor	Memory	Storage / PCI	RAS Features
PRIMEQUEST 3800B	Octo	■ Business-critical applications ■ Transaction demanding workloads ■ In-memory databases ■ Real-time data analytics ■ High-density, high-capability virtualization	PRIMEQUEST 3800B	2, 4, 6, 8 x Intel® Xeon® Platinum Processor	32 GB - 12 TB 96 DIMM DDR4	8 x 2.5" / 16 PCIe slots	SDDC+1, ECC, redundant fans and power supply Intra-socket memory mirroring, MCA, ADDDC-MR

Redefining mission-critical server architecture

FUJITSU Server PRIMEQUEST 3400E/3800E Mission Critical systems unify the economic and flexibility benefits of x86 industry standard servers with mission-critical uptime features. Featuring four/eight of the Intel® Xeon® Processor Scalable Family provided with up to 112/224 cores and up to 12 TB DDR4 memory, the PRIMEQUEST 3400E/3800E provide unprecedented performance and memory capacity for demanding solutions. Along with uncompromising performance, the PRIMEQUEST 3400E/3800E dramatically simplify server architecture for mission-critical computing and come in an all-new compact 7U form factor. This enhanced performance in a significantly smaller form factor, results in lower power consumption and helps reduce the environmental footprint in a data center leading to significant cost savings.
Moreover, mission critical features enable for an outstanding platform reliability with innovative error prevention and self-healing capabilities.

	Type	Use Cases	Products	Processor	Memory	Storage / PCI	RAS Features
PRIMEQUEST 3x00E	Quad Octo	■ Mission-critical applications ■ Big data applications ■ Unix migration ■ High-volume, high-value workloads such as online transaction processing (OLTP), batch processing, and database applications ■ In-memory databases ■ Real-time data analytics	PRIMEQUEST 3400E	Up to 4 x Intel® Xeon® Platinum/Gold Processor	16 GB - 6 TB 48 DIMM DDR4	24 x 2.5" / 16 PCIe slots	Standard - SDDC+1, ECC, redundant fans and power supply Advanced - Intra-socket memory mirroring, MCA, ADDDC-MR Mission Critical - Physical Partition, Extended Partition, Reserved Systemboard, flex IO, Dynamic Reconfiguration, redundant MMB, hot-plug PCIe
			PRIMEQUEST 3800E	Up to 8 x Intel® Xeon® Platinum Processor	16 GB - 12 TB 96 DIMM DDR4	24 x 2.5" / 16 PCIe slots	

FUJITSU Integrated System PRIMEFLEX
Your Fast Track to Data Center Infrastructures

FUJITSU Integrated System PRIMEFLEX is a pre-integrated and pre-tested combination of servers, storage, network connectivity and software. PRIMEFLEX includes both 'ready to run' systems which are pre-installed at the factory, and customizable reference architectures. This reduces complexity, project time, risk and cost, while increasing operational efficiency. Flexible services options such as consulting, design, on-site deployment, integration into existing environments, migration services and overall support delivered by Fujitsu or its partners enable worry-free operation. Pay-as-you go financing options are also available. FUJITSU Integrated System PRIMEFLEX addresses business-critical use cases, such as virtualization, private cloud, Big Data and Analytics, High Performance Computing and SAP environments.

Virtualization / Private Cloud

Integrated System	Short description	Core components
PRIMEFLEX vShape VMware Edition	Converged system for deploying a classical VMware vSphere based infrastructure with external storage. It includes multiple configurations varying in size, and scales up to 64 servers with its Standard Edition, and up to 3x 64 servers with its Enterprise Edition.	Compute: PRIMERGY RX Storage: ETERNUS DX / AF Network: Brocade Software: VMware vSphere, vCenter Optional: VMware Horizon, vRealize
PRIMEFLEX vShape Microsoft Edition	Converged system for deploying a classical Microsoft Hyper-V based infrastructure with external storage. It includes multiple configurations varying in size, and scales up to 16 servers.	Compute: PRIMERGY RX Storage: ETERNUS DX / AF Network: Brocade Software: Windows Server 2016 Standard or Datacenter including Hyper-V, SystemCenter (optional)
PRIMEFLEX for VMware vSAN	Hyper-converged system based on VMware software-defined server and storage technology delivered by the VMware HCI software stack. The system is available in various vSAN Ready Nodes configurations with pre-installed software scaling from 2 to 64 server nodes.	Compute / Storage: PRIMERGY RX / CX Software: VMware vSphere, vSAN, vCenter Optional: VMware Horizon
PRIMEFLEX for VMware Cloud Foundation	Hyper-converged system for deploying a VMware-based software-defined data center infrastructure. The system is available in various configurations from 8 to 192 server nodes.	Compute / Storage: PRIMERGY RX Network: Cisco, QCT Software: VMware Cloud Foundation Optional: VMware Horizon, vRealize
PRIMEFLEX for Microsoft Storage Spaces Direct	Hyper-converged system based on Microsoft software-defined server and storage technology integrated in Windows Server 2016. The system is available in various validated and certified configurations scaling from 2 to 16 server nodes.	Compute / Storage: PRIMERGY RX Software: Windows Server 2016 DC (Hyper-V and Storage Spaces Direct) Optional: SystemCenter
PRIMEFLEX Cluster-in-a-box	Hyper-converged system based on Microsoft Storage Spaces for delivering a continuous availability solution at affordable costs. The system comes with 2 server nodes and is expandable to 4 server nodes, all in a 2U chassis.	Compute / Storage: PRIMERGY CX Software: Windows Server 2016 Standard including Hyper-V and Storage Spaces
PRIMEFLEX for OpenStack	OpenStack cloud infrastructure based on either the Red Hat or SUSE OpenStack platform. It includes a range of pre-defined configurations and a broad choice of validated software extensions taking into account different customer engagement levels and varying use cases.	Compute: PRIMERGY RX / CX Storage: ETERNUS DX / CD, NetApp FAS Network: Cisco, Brocade Software: Red Hat OpenStack Platform, SUSE OpenStack Cloud
NFLEX	Converged system for deploying a classical VMware vSphere based infrastructure with external storage systems from NetApp. It includes multiple configurations varying in size - from 2 to 12 servers, scalable to 64 servers.	Compute: PRIMERGY CX Storage: NetApp AFF / FAS Network: Brocade Software: VMware vSphere

FUJITSU Integrated System PRIMEFLEX
Addressing our customers' needs

SAP

Integrated System	Short description	Core components
PRIMEFLEX for SAP HANA	SAP-validated infrastructure solution for the SAP HANA® software. It is based on Fujitsu PRIMERGY and PRIMEQUEST servers optimized for in-memory technology. The complementary on-site services ensure a fast and non-disruptive implementation and operation at the customer site.	Compute: PRIMERGY / PRIMEQUEST Storage (optional for single-node): ETERNUS / NetApp / TDI support Network (multi-node only): Brocade, Cisco Software: SUSE or Red Hat Linux / Optional: VMware vSphere
PRIMEFLEX for SAP Landscapes	Powered by the FlexFrame Orchestrator software component, the set-up of infrastructures optimized for SAP applications and databases is simplified and a more effective operation enabled. The pre-defined, pre-integrated and pre-tested combination of servers, storage, network connectivity and software ensure highest quality and fast time to value.	Compute: PRIMERGY / PRIMEQUEST Storage: NetApp for shared image; ETERNUS / NetApp for database Network: Brocade, Cisco Software: FUJITSU FlexFrame Orchestrator, SUSE Linux Optional: VMware vSphere, extension packs (e.g. from LNW Soft)

Big Data and Analytics

Integrated System	Short description	Core components
PRIMEFLEX for Hadoop	Powerful and scalable platform for extracting large volumes of data from diverse sources, and analyzing them to get meaningful business-relevant information. The integrated system combines the convenience of pre-configured and pre-tested hardware and the economic advantages of open source software.	Compute / Storage: PRIMERGY CX2550, RX2540 Network: Brocade Software: Cloudera, Hortonworks, MapR, Datameer® Software 6

HPC

Integrated System	Short description	Core components
PRIMEFLEX for HPC	Validated HPC cluster solutions optimized for specific industries and ISV applications like Ansys, Fluent, etc. With Fujitsu's investment in the area of AI and deep learning, the integrated system also provides reference models on workloads across traditional simulation to data analytics and AI.	Compute: PRIMERGY CX, RX; Head node PRIMERGY RX Storage: ETERNUS DX Network: InfiniBand, Interconnect Intel® Omni-Path Software: Intel HPC Orchestrator, HPC Gateway Optional: FEFS (FUJITSU Exabyte File System)

FUJITSU Storage Products
ETERNUS: Business-Centric Storage

In the storage area you can rely on a well synchronized portfolio – Business-Centric storage at its best from a single provider with more than 50 years experience in storage. Fujitsu provides ETERNUS AF all-flash and ETERNUS DX hybrid storage systems, ETERNUS LT tape libraries and ETERNUS CS data protection appliances, which allow customers to flexibly manage their increasing data volumes at less costs of growth, to benefit from a very reliable architecture as well from radically simplified operation.

FUJITSU Storage

All-flash and Hybrid Storage Systems

Combining leading performance architecture with automated quality of service management the ETERNUS AF and ETERNUS DX systems provide powerful features for digital growth, efficiency and continuity.

Tape Storage Systems

The affordable ETERNUS LT tape systems offer impressive scalability and reliability. They meet SMB requirements and are certified for market-leading backup and archiving software.

Data Protection Appliances

ETERNUS CS200c is an appliance with integrated backup software, ETERNUS CS800 offers deduplication for cost-efficient backup-to-disk and ETERNUS CS8000 provides enterprises with complete consolidation of backup and archiving infrastructures.

FUJITSU Storage ETERNUS

ETERNUS AF/DX Family

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

ETERNUS LT Family

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

ETERNUS CS Family

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

FUJITSU ETERNUS Storage
Online storage made easy

CELVIN NAS server

Specifications	Product	Max. capacity	Host interfaces	Functions
Rack: No	QE705/QE805	12/24 TB	Ethernet (1Gbit/s) / USB 3.0 / USB 2.0 / eSATA (depending on selcted product)	VMware, Citrix, Hyper-V virtualization; FTP, file, web, printer, SQL and multimedia server; Remote access and system management, snapshots, App center
Rack: No	Q805	24 TB		
Rack: No	Q905	36 TB		
Rack: Yes	QR802	24 TB		

ETERNUS AF all-flash arrays

Specifications	Product	Host interfaces	Features
Number of Drives: max. 48, 737 TB raw / 3686 TB effective*	AF250	8 x FC 16G / 8 x iSCSI 10G	All-in FlashPack (Configuration, Management and Administration, Local and Remote Copy, Automated Quality of Service, Deduplication and/or Compression)
Number of Drives: max. 192, 2949 TB raw / 14745 TB effective*	AF650	32 x FC 16G / 16 x iSCSI 10G	

ETERNUS DX hybrid storage systems

Specifications	Product	Host interfaces	Features
None: Connectivity / Scalability: max. 4 host ports/ 96 drives (480 TB)	DX60 S4	8/16 Gbit/s FC, 1/10Gbit/s (10GBase-T) iSCSI, 3/6 Gbit/s SAS	RAID Protection and Redundancy; ETERNUS SF Management Software offers Local Advanced Copy, Thin Provisioning
Remote: max. 16 host ports/ 144 drives (2212 TB)	DX100 S4	8/16/32 Gbit/s FC, 10 Gbit/s FCoE, 1/10 Gbit/s iSCSI, 3/6/12 Gbit/s SAS, 1/10 Gbit/s Ethernet	RAID Protection, Encryption and Redundancy; ETERNUS SF Management Software offering Local Advanced Copy, Transparent Failover, Automated Storage Tiering, Automated Quality-of-Service, Thin Provisioning, Deduplication and/or compression on volume base
Remote: max. 16 host ports/ 264 drives (4055 TB)	DX200 S4	8/16/32 Gbit/s FC, 10 Gbit/s FCoE, 1/10 Gbit/s iSCSI, 3/6/12 Gbit/s SAS, 1/10 Gbit/s Ethernet	
Required: Connectivity / Scalability: max. 16 host ports/ 528 drives (8110 TB)	DX500 S4	8/16/32 Gbit/s FC, 10 Gbit/s FCoE, 1/10 Gbit/s iSCSI, 1/10 Gbit/s Ethernet	
max. 32 host ports/ 1056 drives (16220 TB)	DX600 S4	8/16/32 Gbit/s FC, 10 Gbit/s FCoE, 1/10 Gbit/s iSCSI, 1/10 Gbit/s Ethernet	
max. 128 host ports/ 1536 drives (23593 TB)	DX8700 S3	16/32 Gbit/s FC, 10 Gbit/s FCoE, 1/10 Gbit/s iSCSI	
max. 384 host ports/ 4608 drives (70779 TB)	DX8900 S3	16/32 Gbit/s FC, 10 Gbit/s FCoE, 1/10 Gbit/s iSCSI	

** Calculation based on deduplication/compression factor of five*

FUJITSU ETERNUS Storage
Online storage made easy

ETERNUS SF - Flexible Data Management

Description	ETERNUS SF at a glance
The ETERNUS SF storage management software is the uniform management solution for the entire ETERNUS AF and 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 AF all-flash and ETERNUS DX hybrid storage systems from entry-level through the enterprise 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 ■ Support for incident management Hardware 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 Snapshot Manager at a glance
The ETERNUS Snapshot Manager (ESM) is a feature rich software to manage and catalog application-consistent hardware snapshots of ETERNUS AF and 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 AF/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

ETERNUS CD10000 Hyper-scale storage appliance

Decription	At a glance	Host Connectivity Options	Software Version	Hardware platform	Basic configuration
The FUJITSU Storage ETERNUS CD10000 enables you to take care of extreme data growth yourself – and with ease. This hyperscale, software-defined appliance is designed for all environments with huge online data volumes and offers almost unlimited scalability at consistently high levels of performance. The ETERNUS CD10000 combines Ceph open source storage software, Fujitsu management enhancements and Fujitsu enterprise-class hardware with end-to-end maintenance services in a complete solution that is ready to use right "out of the box."	■ 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	Standard PRIMERGY server and network components	4x Basic node +1x Management node

FUJITSU ETERNUS Storage
Data Protection made easy

ETERNUS CS200c Integrated Backup Appliance

Specifications		Product	Description	Data Protection Functions
Usable capacity	8 TB	CS200c S4 ECO	All-in-one backup appliance provides small and midsized environments with a customizable, self-contained solution for professional backup	Backup & recovery, deduplication, compression, encryption, archiving,application support, snapshot, replication, tape and cloud backup
	16, 24, 32, 48 TB	CS200c S4 FLEX		

ETERNUS CS800 backup appliance

Specifications			Key Feature	Data Protection Functions	Usability
Usable capacity after data reduction	8-24 TB	CS800 S6 Entry	Deduplication	Disk-based backup and recovery, replication, path-to-tape, multiprotocoll 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
	8-120 TB				
	32 – 352 TB	CS800 S6 Scale			

ETERNUS CS8000 V6.1

Datacenter solution for backup and archive automation

Specifications			Product	Backup	Archive / second-tier files
Architecture type	branch-office 14 TB, up to 1.4 TB/h		CS8050	VTL, VTL with Dedup (FC 16 GB) Virtual tape drives: 32 / Back-end tape support	(no NAS protocol)
	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 – 2540 (CS8400, CS8800); Back-end tape support	Host connectivity: NAS (NFS / CIFS), 1GbE or 10GbE; Number of Files: 2 Billion; Back-end tape support with CS8400, CS8800
	Cache mirror	single-site	CS8400		
		split-site	CS8800		
scale-out 7 TB – 60 PB, up to 150 TB/h					

ETERNUS LT tape storage systems

Specifications			Interface	Max. drives	Description
No of slots / max. capacity (native)	1 slot / up to 2.5 TB	LTO Desktop	SAS	1	LTO-5 / LTO-6 drive with 1.5 TB (LTO-5) or 2.5 TB (LTO-6) capacity native
	8 slots / up to 48 TB	LT20 S2	SAS or FC	1	LTO-5 / LTO-6 / LTO-7 drive with 12 TB (LTO-5) or 20 TB (LTO-6) or 48 TB (LTO-7) capacity native
	12 – 24 slots / up to 144 TB	LT40 S2	SAS or FC	2	LTO-5 / LTO-6 /LTO-7 drive with 36 TB (LTO-5) or 60 TB (LTO-6) or 144 TB (LTO-7) capacity native
	24 – 48 slots / up to 288 TB	LT60 S2	SAS or FC	4	LTO-5 / LTO-6 / LTO-7 drive with 72 TB (LTO-5) or 120 TB (LTO-6) or 288 TB (LTO-7) capacity native
	80 – 560 slots / up to 3360 TB	LT260	SAS or FC	42	LTO-5 / LTO-6 / LTO-7 with 840 TB (LTO-5) or 1400 TB (LTO-6) or 3360 TB (LTO-7) capacity native

Windows Server

With Windows Server 2016 you can run your business with confidence. Designed with cloud-inspired technologies intended to help your business reach its full potential and operate with agility while maintaining security, resilience, and performance.

	Specifications	Product	Licensed Guest OS	Product details	Client Access Licenses required?	Ordercodes / Comments
Windows Server 2016 Operating Systems	Core-based licensing → No → 2 CPU	Windows Server 2016 Essentials	1	CPU based, supports two sockets, 64 GB RAM and up to 25 users, incl. Hyper-V	CAL > No RDS > Yes	
	Core-based licensing → Yes → 2 cores	Windows Server 2016 Standard	2	Core licensing, Supports 24 TB RAM, supports 1024 active virtual machines, 2 Hyper-V Container, Host Guradian Services, Nano Server, Remote Desktop Services, Just Enough Administration, Nested Virtualization and more	CAL > Yes RDS > Yes	
	Core-based licensing → Yes → 4 cores	Windows Server 2016 Standard			CAL > Yes RDS > Yes	
	Core-based licensing → Yes → 16 cores	Windows Server 2016 Standard			CAL > Yes RDS > Yes	
	Core-based licensing → Yes → 2 cores	Windows Server 2016 Datacenter	unlimited	Core licensing, Supports 24 TB RAM, supports 1024 active virtual machines, unlimited Hyper-V Container, full featured edition	CAL > Yes RDS > Yes	
	Core-based licensing → Yes → 4 cores	Windows Server 2016 Datacenter			CAL > Yes RDS > Yes	
	Core-based licensing → Yes → 16 cores	Windows Server 2016 Datacenter			CAL > Yes RDS > Yes	
Windows Storage Server 2016	Core-based licensing	Windows Storage Server 2016 Standard	2	Scale out and Scale up file server, Support for an unlimited amount of users (may only be limited by particular hardware implementation)	CAL > No RDS > No	
Downgrade DG/DE Media Kit	Windows Server® 2016 → Max. one of each edition	Windows Server 2012 R2	–	Datacenter only to Datacenter and/or Standard, Standard only to Standard	–	
	Windows Server® 2016 → Max. one of each edition	Windows Server 2012	–	Datacenter only to Datacenter and/or Standard, Standard only to Standard	–	
Windows Server 2016 Client Access License	User / Device CAL → Not required for Essentials	Windows Server CALs (User / Device)	–	Required to connect Windows Server services from clients. Available for users or devices and in different CAL packages.	–	
	Remote Services	Windows Server RDS CALs (User / Device)	–	Required to use remote desktop or terminal services. Available for users or devices and in different CAL packages.	–	

FUJITSU Software ServerView®
Infrastructure Management and Server Management

Fujitsu offers comprehensive infrastructure management and server management solution which is key to efficient data center operations. It provides all the functions for flexible and automated 24x7 IT operations and improves end-user productivity via intelligent and innovative system management solutions.

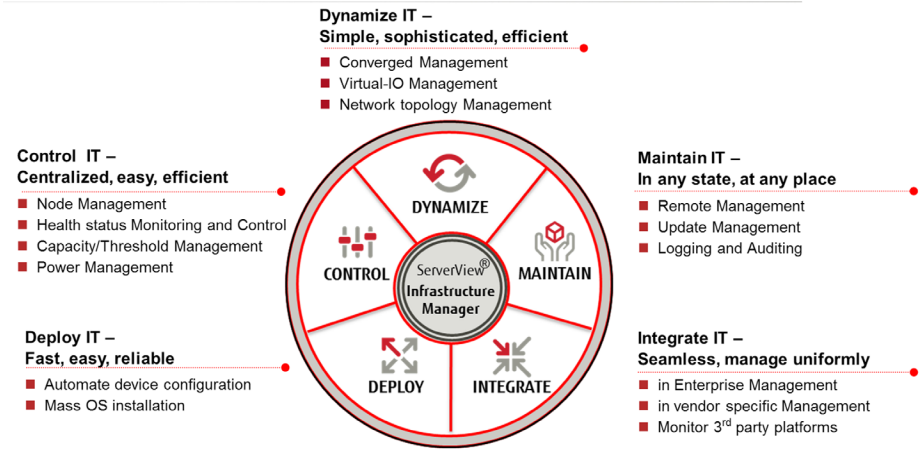
ServerView® Suite- Server Management offerings delivers all optimized deployment, permanent status monitoring and extensive control or analysis when there are malfunctions that result in fewer downtimes as well as improved maintenance and service quality. Consolidate server management functions with the embedded Lifecycle Manager for more simplified, integrated and automated server management processes.

FUJITSU Software ServerView® Infrastructure Manager

FUJITSU Software ServerView® Infrastructure Manager (ISM) enables organizations to drive towards the path of achieving software defined infrastructure, by automating and simplifying infrastructure operations across compute, storage and networking.
Product highlights include:

1. Converged management: Simplified IT operations and consistent management across server, storage and networking
2. Increased agility: Intuitive software providing actionable insights leading to reduced customer response time
3. Accelerate growth and innovation: Streamlined delivery of IT services to speed the transition to hybrid cloud

Designed the way people work, ISM provides an integrated view and centralized control over heterogeneous environment.



FUJITSU Software ServerView Infrastructure Manager is now available with the PRIMERGY CX400 M4 multi-node offering. CX400 M4 with top of the rack switch PSWITCH 2048 managed by ISM is one of the ideal transition paths for Blade server customers.

More information on ServerView® ISM: http://www.fujitsu.com/infrastructuremanagement

FUJITSU Software ServerView® Server Management

Deploy: Fast, easy, reliable

Server Setup and Deployment
- Installation Manager
- Scripting Toolkit

Dynamize: Simple, sophisticated, efficient

Private Cloud Infrastructure
- Resource Orchestrator Cloud Edition

Consolidated Server Infrastructures
- Resource Orchestrator Virtual Edition

I/O Management
- Virtual-IO Manager

Control: Centralized, easy, efficient

Server Monitoring and Control
- Operations Manager
- Agents / CIM Providers
- System Monitor
- Agentless Service
- Event Manager
- RAID Manager

Capacity Management
- Threshold Manager

Power Management
- Power Monitor
- Power Consumption Management (in iRMC)

Storage Support
- Storage Management
- Monitoring / Events

Integrate: Seamless, manage uniformly

Uniformed Management
- Fujitsu ManageNow® solutions

ServerView Integration Packs
- Microsoft SCOM
- Microsoft SCCM
- Microsoft SC VMM
- Microsoft SC PRO Packs
- VMware vCenter
- VMware vRealize
- Nagios
- Icinga
- HP Systems Insight Manager

Maintain: In any state, at any place

Remote Management
- integr. Remote Management Controller (iRMC)
- iRMC Advanced Pack
- Management Blade
- Support Gateway / AutoCall

Embedded Lifecycle Management
- eLCM Activation License

Update Management
- Update Manager (SVUM)
- Update DVD / SVUM Express
- Content Collector

Performance Measurement
- Performance Manager

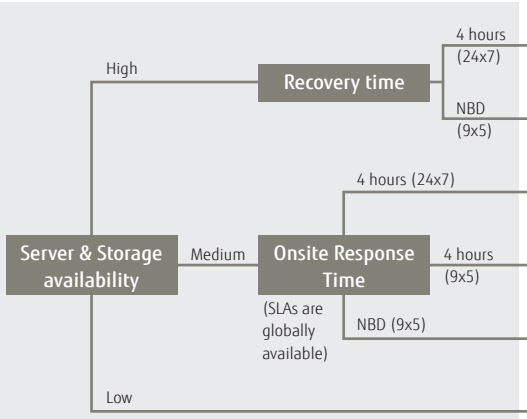
Investigation
- Asset Mgmt. / PrimeCollect

Inspection
- Online Diagnostics / CSS

More information on ServerView® Server Management: www.fujitsu.com/fts/serverview

Product Related Services

Maintenance & Support for Fujitsu Products

	Requirements	Product	Product details	Ordercodes / Comments
Support Pack / ServiceContract Availability may vary from country to country.		Onsite services 24x7 with recovery time of 4 hours Onsite services 9x5 with recovery the NBD Onsite services 24x7 with response time of 4 hours Onsite services 9x5 with response within 4 hours Onsite services 9x5 with response the NBD Warranty prolongation	**Recovery Time:** The hardware recovery time is the time in which a service engineer usually recovers the operational readiness of the hardware. The recovery time refers to the time (within the agreed service time) between the call acceptance and the recovery of the operational readiness. Recovery time excludes the time to recover any data on hard disks and installation of any software and OS. **Onsite Response Time:** If an incident cannot be solved remotely, the on-site response time refers to the time between call acceptance and the arrival of a service engineer with the diagnosed spare part, repair starts after arrival at the customer location. Specific requirements with regards to coverage area and response times are subject to local conditions. **Warranty:** The Warranty is based on a voluntary obligation of Fujitsu as the manufacturer to the initial purchasers of new devices.The standard warranty period included in the product depends on the product class. For its extension, an respective service option has to be acquired.	

Microsoft

Windows Server: Power your business

FUJITSU Server PRIMERGY and Windows Server	OEM	ROK	TX1310 M3	TX1320 M3	TX1330 M3	TX2550 M4	RX1330 M3	RX2520 M4	RX2530 M4	RX2540 M4	RX4770 M4	CX2550 M4	CX2560 M4	PQ 3400E	PQ 3800E	PQ 3800B
Windows Server 2016 Standard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	(✓)	✓	(✓)	(✓)	(✓)
Windows Server 2016 Essentials	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		(✓)	✓			
Windows Server 2016 Datacenter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	(✓)	✓	(✓)	(✓)	(✓)

Fujitsu delivers Maintenance and Support Services through certified support engineers for x86 servers, ETERNUS storage systems and software: From installing new products to providing fast and uncomplicated support for hardware, software and infrastructures. With the right mix of Maintenance and Support Services, Fujitsu enables the early planning for the availability of IT systems required for state-of-the art business operation. IT staff can concentrate on its core business.

For more information about our Product Support Services please visit:
http://www.fujitsu.com/fts/products/computing/support/

Financing is the key component of your IT investment decision. Fujitsu Financial Services helps you acquire tomorrow's technology today. With our unique and tailor made financial solutions we address shrinking budgets, transfer technology risk and disperse financial risk. We give you a peace of mind, leaving you to concentrate on your core business.

For more information on our range of financial solutions please visit:
www.fujitsu.com/fts/financialservices

Published by

Fujitsu Technology Solutions GmbH

Mies-van-der-Rohe-Str. 8, D-80807 Munich
Copyright 2017 FUJITSU LIMITED
Printed in Germany
Contact: ts.fujitsu.com/contact

Update 11.2017

All rights reserved, including intellectual property rights. Technical data subject to modifications and delivery subject to availability. Any liability that the data and illustrations are complete,actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner. Intel, the Intel logo, the Intel Inside logo and Xeon are trademarks of Intel Corporation in the U.S. and/or other countries.