

Server, Solutions & Storage Family Guide

Your fast lane to PRIMERGY servers, ETERNUS storage, Fujitsu services and Microsoft server products for SMEs

FUJITSU



shaping tomorrow with you

 Windows Server

FUJITSU Server Enterprise Products

Choose FUJITSU systems to transform your IT environment

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.

FUJITSU Servers

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 Server PRIMERGY

FUJITSU PRIMERGY TX Family



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

FUJITSU PRIMERGY RX Family



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

FUJITSU PRIMERGY BX Family



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

FUJITSU PRIMERGY CX Family










Density optimized cloud server infrastructures for HPC, cloud and hyper-converged computing.

PRIMERGY Naming

PRIMERGY new naming cheat sheet

New Naming – Easy and recognizable

In 2014 FUJITSU introduced a new system naming for the PRIMERGY server portfolio. After almost 10 years the well-known naming of PRIMERGY servers is getting an important modification to reflect the widened PRIMERGY portfolio. The new system naming mimics the typical buying process of fresh hardware: A customer's first decision point is always the form factor, so the new naming keeps important brand elements like RX, for Rack Server or TX, for Tower Server. The numbers following the form factor refer to the number of sockets and the processor platform type. This leads to a system class, like PRIMERGY RX2500. The last numbers in the name refer to the feature set and the generation of the specific model.

	Segment	Old naming	Current naming	How do you choose a server?	An Example (Successor of PRIMERGY RX300 S8)
	Tower Server New possible classes: 1300 2500	TX100 S3 TX120 S3 TX140 S2 TX150 S8 TX200 S7 TX300 S8	TX1310 M1 TX1320 M1 TX1330 M1 Combined successor TX2540 M1 TX2560 M1	1. 	Formfactor BX: Blade server / Chassis CX: Cloud server / Chassis MX: Micro server RX: Rack server TX: Tower server SX: Storage blade
	Rack server New possible classes: 1300 2500 4700	RX100 S8 No predecessor RX200 S8 RX300 S8 RX350 S8 RX500 S7 RX600 S6	RX1330 M1 RX2520 M1 RX2530 M1 RX2540 M1 RX2560 M1 Combined successor RX4770 M1	2. 	Number of Sockets 1: 1-way 2: 2-way 4: 4-way 8: 8-way 9: 16-way or more
	Blade server 2500 class	BX920 S4 BX924 S4	BX2560 M1 BX2580 M1	3. 	Platform Type 0: Placeholder 1: Placeholder 2: Placeholder 3: Intel E3 family 4: Placeholder 5: Intel E5 family 6: Placeholder 7: Intel E7 family 9: Placeholder
	Multi node server 2500 class	CX250 S2 CX270 S2	CX2550 M1 CX2570 M1	4. 	Feature Set 10: Subentry 1 20: Subentry 2 30: Entry 1 40: Entry 2 50: Midrange 1 60: Midrange 2 70: High End 1 80: High End 2 90: Reserved (tbd)
				5. 	Generation "M": Model + 1 case of next technology generation; The generation suffix rises incrementally with each new processor generation
					 <p>New Naming: RX2540 M1</p>

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 and agility. 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.

Tower



Type	Specifications	Products	Processor	Memory	Storage*	Ordercodes / Comments	
Mono	PSU Redundancy: None	Size / max. scalability: Standard / 4 HDDs & 32 GB RAM	TX1310 M1	Intel® Xeon® E3v3, Core i3®, Pentium®	2 – 32 GB 4 DIMM DDR3	4 x 3.5" SATA	
		Ultra-compact / 6 HDDs & 32 GB RAM	TX1320 M1	Intel® Xeon® E3v3, Core i3, Pentium®	2 – 32 GB 4 DIMM DDR3	2 x 3.5" SATA or 4+2 x 2.5" SATA/SAS	
	PSU Redundancy: Required	Max. scalability: 8 HDDs & 32 GB RAM	TX1330 M1	Intel® Xeon® E3v3, Core i3®, Pentium®	4 – 32 GB 4 DIMM DDR3	4 x 3.5" SATA/SAS or 8 x 2.5" SATA/SAS	
		16 HDDs & 96 GB RAM	TX150 S8	Intel® Xeon® E5-1400, E5-2400	2 – 96 GB 6 DIMM DDR3	8 x 3.5" SATA/SAS or 16 x 2.5" SATA/SAS	
Dual	Scalability: High (up to 6 PCI slots / 24 HDDs)		TX2540 M1	1-2 x Intel® Xeon® E5-2400v2	4 – 192 GB 12 DIMM DDR3	8 x 3.5" SATA/SAS or 24 x 2.5" SATA/SAS	
		Maximum (10 x PCI slots / 24 x HDDs, 2 x GPGPU)	TX300 S8	1-2 x Intel® Xeon® E5-2600v2	4 – 1532 GB 24 DIMM DDR3	12 x 3.5" SATA/SAS or 24 x 2.5" SATA/SAS	

Rack





Mono	1U (3 x PCI slots, 4 x HDDs)	RX1330 M1	Intel® Xeon® E3v3, Core i3®, Pentium®	2 – 32 GB 4 DIMM DDR3	4 x 3.5" SATA/SAS or 10 x 2.5" SATA/SAS		
Dual	Max. performance	Essential performance	RX2520 M1	1-2 x Intel® Xeon® E5-2400v2	4 – 192 GB 12 DIMM DDR3	12 x 3.5" SATA/SAS or 16 x 2.5" SATA/SAS	
		1U / high (4 x PCI slots, 10 x HDDs)	RX2530 M1	1-2 x Intel® Xeon® E5-2600v3	4 – 1532 GB 24 DIMM DDR4	4 x 3.5" SATA/SAS or 8x/10x 2.5" SATA/SAS	
		2U / very high (7 x PCI slots, 16 x HDDs)	RX300 S8	1-2 x Intel® Xeon® E5-2600v2	4 – 1532 GB 24 DIMM DDR3	6 x 3.5" SATA/SAS or 16 x 2.5" SATA/SAS	
		2U / very high (8 x PCI slots, up to 24 x HDDs**)	RX2540 M1	1-2 x Intel® Xeon® E5-2600v3	4 – 1532 GB** 24 DIMM DDR4	12x 3.5" SATA/SAS or 24" x 2.5" SATA/SAS	
Quad	Optimized for	4U / maximum (10 x PCI slots, 24x HDDs, 2 x GPGPU)	RX350 S8	1-2 x Intel® Xeon® E5-2600v2	4 – 1532 GB 24 DIMM DDR3	12 x 3.5" SATA/SAS or 24 x 2.5" SATA/SAS	
		OLTP and in-memory solutions	RX4770 M1	2-4 Intel® Xeon® E7-4800v2	8 – 6144 GB 96 DIMM DDR3	8 x 2.5" SAS and/or 4 x PCIe SSD	

*Most RX/TX systems are available with 2.5" SATA/SAS SSD storage drives | ** available Q1/2015


FUJITSU Server PRIMERGY Blade Systems



Converged infrastructure platform designed to maximize time and efforts

Server & Storage Blades		Specifications	Product	Processor	Controller (onboard)	Storage / Tape	Ordercodes / Comments	
PRIMERGY BX400 <ul style="list-style-type: none"> 6U chassis for 19-inch racks or floorstand version 8 slots for server- or storage blades 4 slots for connection blades 	Server Blade	Memory expandability	4 – 768 GB (12 DIMM DDR3)	BX920 S4	1-2 x Intel® Xeon® E5-2400 v2	2 x 10 Gb/s CNA Ethernet	2 x 2.5" SAS/SATA (hot plug)	
			4 – 1532 GB (24 DIMM DDR3)	BX924 S4	1-2 x Intel® Xeon® E5-2600 v2	2 x 10 Gb/s CNA Ethernet	2 x 2.5" SAS/SATA SSD, or 1 x 3.5" SATA HDD (non hot-plug)	
			8 – 1024 GB (16 DIMM DDR4)	BX2560 M1	1-2 x Intel® Xeon® E5-2600 v3	2 x 10 Gb/s CNA Ethernet	2 x 2.5" SAS/SATA SSD, or 2 x 3.5" SAS/SATA HDD (hot-plug)	
			8 – 1536 GB (24 DIMM DDR4)	BX2580 M1	1-2 x Intel® Xeon® E5-2600 v3	2 x 10 Gb/s CNA Ethernet	2 x 1.8" SATA SSD	
	Storage Blade Disk	Type	Direct-attached storage	SX960 S1	-	-	10 x 2.5" SATA/SAS (hot-plug)	
Centralized storage			SX980 S2	-	-	10 x 2.5" SAS (hot-plug)		
Connection Blades		Specifications	Product	Description	Max. nr. per BX400 / BX900	Ordercodes / Comments		
Ethernet	Ports (down- / uplink)	18 x 10 Gbit/s, 18 x 1/10 Gbit/s	Ethernet Switch/IBP 10 Gbit/s 18/8	Layer 2+, 10 Gbit/s Ethernet Switch or Intelligent Blade Panel (IBP)	4 / 6			
		36 x 1 Gbit/s, 12 x 1 Gbit/s	Ethernet Switch/IBP 1 Gbit/s 36/12	Layer 2+, 1 Gbit/s Ethernet Switch or Intelligent Blade Panel (IBP)	4 / 8			
		36 x 1 Gbit/s, 8 x 1 Gbit/s, 2 x 10 Gbit/s	Ethernet Switch/IBP 1 Gbit/s 36/8+2	Layer 2+, 1/10 Gbit/s Ethernet Switch or Intelligent Blade Panel (IBP)	4 / 8			
FCoE	Ports (down- / uplink)	18 x 10 Gbit/s, 8 x 10 Gbit/s + 2x 40 Gbit/s	Ethernet Switch/IBP 10/40 Gbit/s 18/8+2	10/40 Gbit/s Ethernet Switch, Intelligent Blade Panel (IBP) or End Host Mode (EHM)	4 / 6			
		16 x 10 Gbit/s, 8 x 10 Gbit/s	Ethernet FEX (Cisco Nexus B22F)	Cisco Nexus B22 Series Blade Fabric Extender	4 / 4			
Fibre Channel	Ports (down- / uplink)	18 x 8 Gbit/s, 8 x 8 Gbit/s	8 Gbit/s Fibre Channel Switch	Fibre Channel Switch (Brocade 5450) upgradable to 26 ports	3 / 4			
		18 x 8 Gbit/s, 18 x 8 Gbit/s	Fibre Channel Pass Thru	8 Gbit/s Pass-Thru Fibre Channel Module	3 / 4			
SAS		18 x 6 Gbit/s, 6 x 6 Gbit/s	SAS Connection Blade	6 Gbit/s SAS Switch to connect e.g. PRIMERGY SX980 storage blade(s)	2 / 2			
IB		18 x 56 Gbit/s, 8 x 56 Gbit/s	InfiniBand Connection Blade	Top performance for highly-demanding network connections	1 / 3			
PRIMERGY BX900 S2 <ul style="list-style-type: none"> 10U chassis for 19-inch racks 18 slots for server- or storage blades 8 slots for connection blades 								

FUJITSU Server PRIMERGY Scale-out Systems


Scale-out Smart for HPC and Cloud Computing

Usage Scenario Type	Specifications	Products	Processor	Memory	Co-processor / GPGPU support	Ordercodes / Comments		
PRIMERGY CX400 M1 <ul style="list-style-type: none"> 2U chassis for 19-inch racks Slots for 2-4 computing nodes Up to 24 x 2.5-inch storage drives 	HPC, scale-out	Co-processor support / density	1U, no co-processor support	CX2550 M1	1-2 x Intel® Xeon® E5-2600 v3	16 – 1024 GB** 16 DIMM DDR4	-	
			2U, co-processor & GPGPU support	CX2570 M1	1-2 x Intel® Xeon® E5-2600 v3	16 – 1024 GB** 16 DIMM DDR4	2x GPGPU / co-processor support (Nvidia Tesla™ K-series, Nvidia Grid series, Intel® Xeon® Phi™)	

Usage Scenario Type	Specifications	Products	Processor	Memory	Expansion cards	Ordercodes / Comments	
PRIMERGY CX420 S1 <ul style="list-style-type: none"> 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  	High availability cluster	Strong performance, cluster ready	CX272 S1	1-2 x Intel® Xeon® E5-2600	16 – 256 GB 16 DIMM DDR3	1 x fix for SAS HBA, 1 x for any released card, 1 x for optional 10 GbE	

FUJITSU Server PRIMEQUEST

Scalable platform for business-critical and mission-critical workloads


Type	Specifications	Products	Processor / Memory	Storage / PCI	Mission-Critical Features	Ordercodes / Comments	
FUJITSU Server PRIMEQUEST 	Quad	Mission-critical workloads	PRIMEQUEST 2400E	4 x Intel® Xeon® E7 v2 Max 6TB / 96 DIMM	16 x 2.5" / 16-56 PCIe slots	Yes – Reserved System Board, Flexible I/O, Dynamic Reconfiguration, red. MMB, hot-plug PCIe	
		Mission-critical workloads	PRIMEQUEST 2800E	8 x Intel® Xeon® E7 v2 Max 12TB / 192 DIMM	24 x 2.5" / 16-56 PCIe slots		
	Octo	Optimized for ...	Business-critical workloads	PRIMEQUEST 2800B	8 x Intel® Xeon® E7 v2 Max 12TB / 192 DIMM	8 x 2.5" / 16 PCIe slots	No

IT Infrastructure Solutions

FUJITSU IT Infrastructure Solutions are complete, pre-configured and pre-installed IT infrastructures which contain all HW and SW components needed to start work. Customers avoid any implementation risk thanks to entire pre-tested deliveries. Upon arrival just turn it on, spend some minutes with its setup and you are ready to work.


FUJITSU Cluster-in-a-box

- Business continuity with nearly no downtime
- Easy buying
- Ready-to work a few minutes after receipt
- No implementation risk
- Optionally leverage the benefits of virtualization

Server node extensibility	Intended for	based on	Ethernet switch	Description	Storage extensibility	Ordercodes / Comments	
FUJITSU Cluster-in-a-box 	Fix 2 server cluster	physical loads	CX420-S	Switchless cluster (integrated)	two nodes, each with: 2 x Intel® Xeon® E5-2609 (4 core), 16 GB memory, 3 x 1 Gbit/s Ethernet, 2 x SAS Expander, Windows® Server® 2012 R2 Standard, shared disks: 4 x 1TB NL-SAS	additional disks with FUJITSU Storage ETERNUS JX	
		virtual loads	CX420-M	Switchless cluster (integrated)	two nodes, each with: 2 x Intel® Xeon® E5-2630 (6 core), 64 GB memory, 7 x 1 Gbit/s Ethernet, 2 x SAS (Expander), Windows® Server® 2012 R2 Datacenter, shared disks: 4 x 1,2TB HDD SAS	additional disks with FUJITSU Storage ETERNUS JX	
		virtual loads	BX400-M	2x 1 Gbit/s Switch 36/8+2	two server blades, one storage blade: 2 x Intel® Xeon® E5-2430v2 (4 core), 64 GB memory, 8 x (2x 1 Gbit/s, 4x 10 Gbit/s, 2x 6Gbit/s) Ethernet, 2 x SAS ConBlade, Windows® Server® 2012 R2 Datacenter, shared disks: 6 x 1,2TB HDD SAS	additional disks with FUJITSU Storage ETERNUS JX	
	Configurable	virtual or physical	CX420-C	Switchless cluster (integrated)	two nodes, each with: 2 x Intel® Xeon® E5-2430 (6 core), 8-256 GB memory, up to 9 x (7x 1 Gbit/s, 2x 10 Gbit/s) Ethernet, 2 x SAS Expander, Windows® Server® 2012 R2 Standard or Datacenter, shared disks: 10 x 600 GB SAS	additional disks with FUJITSU Storage ETERNUS JX	
			BX400-C	2x 1Gbit/s or 2x 10 Gbit/s Switch	two server blades, one storage blade: 2 x Intel® Xeon® E5-2400v2 family (6 core), 8-768 GB memory, 8 x (2x 1 Gbit/s, 4x 1 Gbit/s, 2x 6Gbit/s) Ethernet, 2 SAS ConBlade, Windows® Server® 2012 R2 Standard or Datacenter, shared disks: 10 x 900 GB SAS	additional disks with FUJITSU Storage ETERNUS JX	

Fujitsu vShape reference architectures for virtualization and private cloud

- Tested and synchronized
- Ready-to-use - simple and fast deployment
- Flexibility to scale as needs and demands grow or change
- Single source for the complete solution including partner products

Workload	Hypervisor	Key components	Options	Use Cases	Ordercodes / Comments
Fujitsu vShape 	25 Virtual Machines 50 Virtual Machines 100 Virtual Machines 200 Virtual Machines 25 Desktop Machines Microsoft Hyper-V or VMware vSphere VMware Horizon	PRIMERGY RX 300 S8 servers ETERNUS DX 100 S3 or NetApp FAS 25xx storage and Brocade switches	<ul style="list-style-type: none"> ■ 25 Desktop Machines ■ High Availability ■ Backup ■ Disaster Recovery ■ Additional Software 	<ul style="list-style-type: none"> ■ Business-critical applications ■ Test & development environments ■ Desktop virtualization ■ IT services ■ Vertical solutions, e.g. healthcare, education, public, manufacturing, media,... 	

Fujitsu RapidStructure

Your fast track towards applications optimized infrastructures

RapidStructure simplifies the design of IT projects. Application based reference architectures, which can be adapted to individual customer requirements, enable the rapid, straightforward and risk-free realization of IT projects. Based on experiences from numerous customer projects, these configurations are continually updated and expanded. RapidStructure covers current topics like collaboration and communication. Additionally, helpful instructions and best practice information support the implementation. By using the configuration tools (e. g. SystemArchitect), the components required for the project can be quickly adapted to meet individual customer needs. RapidStructure reference architectures are based on industry standard products and established applications from our software partners.

Customer Benefits at a glance:

- Fast, easy and risk-free design of IT projects
- Adaptable and up-to-date reference architectures
- Benefit from comprehensive project experience

→ <https://partners.ts.fujitsu.com/RapidStructure> (Partners only)

	Use Cases	Application	Number of users	Key components	Options	Ordercodes / Comments
Fujitsu RapidStructure	<ul style="list-style-type: none"> Collaboration E-Mail services and Groupware Company Communication 	<ul style="list-style-type: none"> Microsoft® Sharepoint 2013 Microsoft® Exchange 2013 Microsoft® Lync 2013 	<ul style="list-style-type: none"> 250 concurrent users 500 mailboxes 1000 users 	<ul style="list-style-type: none"> ■ FUJITSU Server PRIMERGY RX or TX systems ■ Microsoft® Windows Server® 2012 R2 ■ MS SQL Server / Express ■ Application 	<ul style="list-style-type: none"> ■ Resizing / Scalability ■ Media Gateway for Lync ■ Migration for Exchange ■ Backup options 	

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 DX disk 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

Disk Storage Systems

Combining leading performance architecture with automated quality of service management the ETERNUS DX series aligns storage resources with business priorities, thus enabling high system utilization and consolidation.

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 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	Required interface	Functions	Ordercodes / Comments
Rack <ul style="list-style-type: none"> No <ul style="list-style-type: none"> Q703 Q802 Q902 Yes <ul style="list-style-type: none"> QR802 	Q703	8 TB	Gigabit Ethernet / USB 3.0 / eSATA	VMware, Citrix, Hyper-V virtualization; FTP, file, web, printer, SQL and multimedia server; Remote access and system management	
	Q802	12 TB			
	Q902	18 TB			
	QR802	12 TB			

ETERNUS JX JBOD systems



Specifications	Product	Functions	Ordercodes / Comments
Focus <ul style="list-style-type: none"> High performance High capacity 	ETERNUS JX40	Max. 230 TB capacity; Hard disks: 1 - 144 SAS and SATA, 2.5" drives mixable in up to 6 shelves	
	ETERNUS JX60	Max. 960 TB capacity; Hard disks: 1 - 240 SAS, 3.5" drives in up to 4 shelves	

ETERNUS DX disk storage systems




Specifications	Product	Max. drives	Host interface	Ordercodes / Comments
Remote <ul style="list-style-type: none"> None <ul style="list-style-type: none"> connectivity / scalability <ul style="list-style-type: none"> max. 4 host ports/ 24 drives (144 TB) Required <ul style="list-style-type: none"> connectivity / scalability <ul style="list-style-type: none"> max. 8 host ports/ 144 drives (864 TB) max. 8 host ports/ 264 drives (1584 TB) max. 16 host ports/ 528 drives (3168 TB) max. 32 host ports/ 1056 drives (6336 TB) max. 128 host ports/ 3072 drives (6144 TB) 	DX60 S3	24 x SAS / Nearline SAS	Up to 8 Gbit/s FC / 1 Gbit/s iSCSI / 6 Gbit/s SAS	
	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	
	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	
	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	
	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	
	DX8700 S2	Up to 3,072 x SSD, 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	

FUJITSU ETERNUS Storage

Online storage made easy





	Description	ETERNUS SF at a glance	Ordercodes / Comments
ETERNUS SF - Flexible Data Management	<p>The 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.</p>	<ul style="list-style-type: none"> ■ 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 	

	Description	ETERNUS SF at a glance	Ordercodes / Comments
ETERNUS Snapshot Manager - Efficient Snapshot Management	<p>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.</p>	<ul style="list-style-type: none"> ■ 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 	

	Description	At a glance	Host Connectivity Options	Software Version	Hardware platform	Basic configuration	Ordercodes / Comments
ETERNUS CD10000 Hyper-scale storage appliance 	<p>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.”</p>	<ul style="list-style-type: none"> ■ 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 	<p>Unified: Block, File and Object</p>	<p>Based on Open Source Ceph storage software</p>	<p>Standard PRIMERGY server and network components</p>	<p>4x Basic node + 1x Management node</p>	

FUJITSU ETERNUS Storage

Data Protection made easy

ETERNUS CS200c Integrated Backup Appliance 	<table border="1"> <thead> <tr> <th colspan="2">Specifications</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Usable capacity</td> <td>fixed 2-24 TB</td> </tr> <tr> <td>scalable 6-96 TB</td> </tr> </tbody> </table>	Specifications		Usable capacity	fixed 2-24 TB	scalable 6-96 TB	<table border="1"> <thead> <tr> <th>Product</th> </tr> </thead> <tbody> <tr> <td>CS200c Entry</td> </tr> <tr> <td>CS200c Scale</td> </tr> </tbody> </table>	Product	CS200c Entry	CS200c Scale	<table border="1"> <thead> <tr> <th>Description</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> All-in-one backup appliance provides small and mid-sized environments with a customizable, self-contained solution for professional backup CommVault Appliance Foundation software is included and licensed for complete capacity </td> </tr> </tbody> </table>	Description	<ul style="list-style-type: none"> All-in-one backup appliance provides small and mid-sized environments with a customizable, self-contained solution for professional backup CommVault Appliance Foundation software is included and licensed for complete capacity 	<table border="1"> <thead> <tr> <th>Data Protection Functions</th> </tr> </thead> <tbody> <tr> <td>Backup & recovery, deduplication, archiving, application support, snapshot, replication, tape management</td> </tr> </tbody> </table>	Data Protection Functions	Backup & recovery, deduplication, archiving, application support, snapshot, replication, tape management	<table border="1"> <thead> <tr> <th>Ordercodes / comments</th> </tr> </thead> <tbody> <tr><td> </td></tr> <tr><td> </td></tr> </tbody> </table>	Ordercodes / comments																									
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Microsoft® Server products

Reliable foundation and increased productivity



	Specifications	Product	Licensed Guest OS	Product details	Client Access Licenses required?	Ordercodes / Comments
Windows Server® 2012 R2 Operating Systems		Windows Server® 2012 R2 Foundation	none	1 server license, supports one socket, 32 GB RAM and up to 15 users, No Hyper-V support	CAL > No RDS > Yes	
		Windows Server® 2012 R2 Essentials	1	1 server license, supports two sockets, 64 GB RAM and up to 25 users, incl. Hyper-V, VM only for Essentials	CAL > No RDS > Yes	
		Windows Server® 2012 R2 Standard	2	2 processor license, more VM/CPU per add. Lic., supports 4 TB RAM, full featured edition	CAL > Yes RDS > Yes	
		Windows Server® 2012 R2 Standard	4	4 processor license, more VM/CPU per add. Lic., supports 4 TB RAM, full featured edition	CAL > Yes RDS > Yes	
		Windows Server® 2012 R2 Datacenter	unlimited	2 processor license, Supports 4 TB RAM, full featured edition	CAL > Yes RDS > Yes	
		Windows Server® 2012 R2 Datacenter	unlimited	4 processor license, more CPU per add. Lic., supports 4 TB RAM, full featured edition	CAL > Yes RDS > Yes	
Windows® Storage Server 2012 R2		Windows® Storage Server 2012 R2 Standard 2CPU/2VM	2	2 processor license, more CPU per add. Lic., scale out and sale up file server, unlimited amount of users	CAL > No RDS > No	
		Windows® Storage Server 2012 R2 Standard 4CPU/4VM	4	4 processor license, more CPU per add. Lic., scale out and sale up file server, unlimited amount of users	CAL > No RDS > No	
Downgrade DG/DE Media Kit		Windows Server® 2012	-	Datacenter only downgrade to Datacenter and / or Standard, Standard can only downgrade to Standard	-	
		Windows Server® 2008 R2	-	Datacenter only downgrade to Datacenter, Enterprise and / or Standard, Standard can only downgrade to Enterprise and / or Standard	-	
Windows Server 2012 Client Access License		Windows Server® CALs (User / Device)	-	Required to connect Windows Server services from clients. Available for users or devices and in different CAL packages.	-	
		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® Suite

Integrated Server Lifecycle Management

ServerView® Suite is the key to higher value and efficient IT operation. It provides all the functions for fail-safe, flexible and automated 24x7 server operations and improves end-user productivity via intelligent and innovative system management solutions. It also supports the technologies involved in virtualization and the higher dynamics of IT infrastructures. ServerView® Suite delivers 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. A high level of energy-efficient server operation is ensured by state-of-the-art power monitoring and control functions whereby seamless PRIMERGY integration in heterogeneous IT landscapes with different management enables full investment protection.

Deploy fast, easy, reliable	Control centralized, easy, efficient	Dynamize simple, sophisticated, efficient	Maintain in any state, at any place	Integrate seamless, manage uniformly
<p>Server Setup and Deployment</p> <ul style="list-style-type: none"> ■ Installation Manager Configures Fujitsu PRIMERGY server hardware and installs operating systems and server management software either unattended or menu-driven, locally or remotely. ■ Scripting Toolkit Collection of utilities and sample scripts for individual script-based Fujitsu PRIMERGY server configuration and installation. 	<p>Server Monitoring and Control</p> <ul style="list-style-type: none"> ■ Operations Manager ■ Agents / CIM Providers <ul style="list-style-type: none"> ■ System Monitor ■ Event Manager ■ RAID Manager <p>Capacity Management</p> <ul style="list-style-type: none"> ■ Threshold Manager <p>Power Management</p> <ul style="list-style-type: none"> ■ Power Monitor ■ Power Consumption Management (in iRMC) <p>Storage Support</p> <ul style="list-style-type: none"> ■ Storage Management <ul style="list-style-type: none"> ■ Monitoring ■ Events 	<p>Private Cloud Infrastructure</p> <ul style="list-style-type: none"> □ Resource Orchestrator Cloud Edition <p>Consolidated Server Infrastructures</p> <ul style="list-style-type: none"> □ Resource Orchestrator Virtual Edition <p>I/O Management</p> <ul style="list-style-type: none"> □ Virtual-I/O Manager 	<p>Remote Management</p> <ul style="list-style-type: none"> ■ integr. Remote Management Controller (iRMC) <ul style="list-style-type: none"> □ iRMC Advanced Pack ■ Management Blade □ Support Gateway / AutoCall <p>Update Management</p> <ul style="list-style-type: none"> ■ Update Manager <ul style="list-style-type: none"> Download Manager Repository Manager ■ Update DVD ■ Update Manager Express ■ Repository Server <p>Performance Measurement</p> <ul style="list-style-type: none"> ■ Performance Manager <p>Investigation</p> <ul style="list-style-type: none"> ■ Asset Management <ul style="list-style-type: none"> ■ Archive Manager ■ Inventory Manager ■ PrimeCollect <p>Inspection</p> <ul style="list-style-type: none"> ■ Online Diagnostics ■ Customer Self Service <ul style="list-style-type: none"> □ Local Service Panel / Display 	<p>Uniformed Management</p> <ul style="list-style-type: none"> □ Fujitsu ManageNow® solutions <p>ServerView Integration Packs</p> <ul style="list-style-type: none"> ■ Microsoft SCOM ■ Microsoft SCCM ■ Microsoft SC VMM ■ Microsoft SC PRO Packs ■ VMware vCenter ■ Nagios ■ Icinga ■ HP Operations Manager ■ HP Systems Insight Manager ■ CA Unicenter ■ CA Spectrum □ BMC Patrol <p style="text-align: right;"> ■ = Standard □ = Option </p>

More information on FUJITSU Software ServerView® Suite: www.fujitsu.com/fts/serverview

Support Pack / ServiceContract

Maintenance & Support for Fujitsu Products

Support Pack / ServiceContract	Requirements	Product	Product details	Ordercodes / Comments
<p>Availability may vary from country to country.</p>		Onsite services 24x7 with recovery time of 4 hours	<p>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.</p> <p>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.</p> <p>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.</p>	
		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				

Windows Server

FUJITSU Server PRIMERGY and Microsoft® Windows Server®	OEM	ROK	TX1310 M1	TX1320 M1	TX1330 M1	TX150 S8	TX2540 M1	TX300 S8	RX1330 M1	RX200 S8	RX2520 M1	RX300 S8	RX2540 M1	RX350 S8	RX4770 M1	BX920 S4	BX2560 M1	BX924 S4	OX2550 M1	OX2570 M1	PQ 2400E	PQ 2800E	PQ 2800B
Windows Server® 2012 R2 Foundation	✓	✓	✓	✓	✓	✓			✓														
Windows Server® 2012 R2 Essentials	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓												
Windows Server® 2012 R2 Standard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server® 2012 R2 Datacenter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Storage Server® 2012 R2 Standard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					

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.

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