

Fujitsu Enterprise Product & Solution Facts

Servers

PRIMERGY, SPARC Enterprise, PRIMEQUEST, BS2000/OSD Mainframes

Storage

ETERNUS for Flexible Data Management and Efficient Data Protection

Solutions

SAP, Cloud, Security, HPC



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Dynamic Infrastructures provide flexible IT capacity – made possible through the dynamic IT resource allocation based on the consistent usage of IT standards and the provisioning of flexible IT delivery models. With the Dynamic Infrastructures portfolio, Fujitsu created an optimally concerted offering of IT products, IT infrastructure solutions, Infrastructure-as-a-Service and Managed Infrastructure services. The offerings interact with each other and give customers the flexibility to combine them as needed. This booklet introduces our Server and Storage Infrastructure products.

In addition to cutting-edge products, Fujitsu delivers world-wide **Maintenance and Support Services:** Warranty comes standard with our products; The Support Pack / ServiceContract Hardware and the Support Pack / ServiceContract Software are the perfect extension on top of the standard warranty. The InstallationPack ensures smooth IT operation right from the start while intern IT specialist can concentrate on their core business. For more information regarding Fujitsu Maintenance and Support services please visit

www.fujitsu.com/fts/services/support



Empowering Your Enterprise FUJITSU Server PRIMERGY

Transform your IT into a competitive advantage

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 PRIMERGY servers and solutions can meet these requirements for companies of all sizes and provide a cost-effective and adaptable range of services.

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. In the server sector Fujitsu offers the most comprehensive portfolio of x86-based industry standard systems within the branch so as to cover the numerous individual requirements of all customers. The portfolio ranges from tower servers (TX), rack-optimized servers (RX), blade servers (BX) and cloud server infrastructure systems (CX) up to PRI-MEQUEST servers (PQ) which meet the highest failsafe requirements.

FUJITSU Server PRIMERGY (MX) Micro Systems

PRIMERGY MX Micro Servers: uncomplicated, reliable and affordable. By making IT easy and affordable, Fujitsu lets small businesses concentrate on reaching their full business potential.

FUJITSU Server PRIMERGY (TX) Tower Systems

PRIMERGY TX industry standard Tower Servers: efficient, rock solid, recordbreaking performance. TX servers reach industry – leading performance per watt ratios, lowering the environmental impact and running costs. Local or remote management via PRIMERGY ServerView Suite saves IT admin costs. PRIMERGY towers provide plenty of scope for expansion and in most cases are also available in rack-mountable form.

FUJITSU Server PRIMERGY (RX) Rack Systems

PRIMERGY Rack Servers are the perfect platform to build up dynamic infrastructures to support current and future business requirements by delivering top performance, excellent scalability and leading efficiency in a modular, easy-to-upgrade housing. Combined with high efficient power supplies and a simplified power management this contributes to favorable lifecycle costs. High product quality, customized configuration and Fujitsu's complete ecosystem of services and solutions complete the package.

FUJITSU Server PRIMERGY (BX) Blade Systems

PRIMERGY Blade Servers provide a faster, simpler and lower-cost way to build and run an IT infrastructure for your midsize organization, branch office or large data center. You have the choice of two PRIMERGY Blade Server chassis that reflect Fujitsu's quality and experience in server design. The PRIMERGY BX900 is a complete dynamic server infrastructure in a box, enabling to react to rapidly changing needs. If you need maximum availability, particularly within a virtualized environment, the PRIMERGY BX900 will meet all your requirements, with the scalability to cope with peak workloads. For midsize organizations and/or branch office requirements, the PRIMERGY BX400 Blade Server is the natural choice. It combines the performance and reliability of the BX900, with enhanced ease-of-use, versatility, and the smaller footprint required by organizations with fewer resources, and less space.

FUJITSU Server PRIMERGY (CX) Multi-Node Systems

High compactness, a shared power and cooling infrastructure and ease of use aiming at decreased capital and operational expenses are central design characteristics of the PRIMERGY CX400 architecture. As part of the PRIMERGY CX multi-node server line, it provides a new condensed granularity for scale-out server deployment by packing up to 4 half-wide dual socket server nodes into an only 2 U chassis in standard 19" rack form factor. The PRIMERGY CX2xx server nodes at half width size address the deployment of scale-out server platforms for HPC, terminal or storage virtualization farms, hosting, and for Virtual Client Computing.

FUJITSU Fast Track Solutions

With Fujitsu Cluster-in-a-box and Fujitsu Integrated System SQL Server Data Warehouse Appliance you receive complete pre-configured and pre-installed solutions, which are pre-tested and therefore avoid any implementation risk. Upon delivery just turn it on, spend some minutes with its setup and you are ready to work. Fujitsu Cluster-in-a-box provides business continuity with nearly no downtimes and leverages Microsoft Windows Server 2012 technology. It consists of two server nodes, shared storage as well as redundant network components and redundant power supplies within a single box. Fujitsu SQL Server Data Warehouse Appliance provides the foundation for in-depth business decisions. This performance optimized data warehouse appliance is based on Microsoft SQL Server 2012 technology and Fujitsu Server PRIMERGY RX300.

FUIITSU Data Center Product PRIMECENTER M1 Racks

PRIMECENTER M1 19-inch Racks are the basis for rack configurations, such as server, storage systems as well as operating controls, such as consoles, switches, power distribution units (PDUs) and uninterruptible power supplies (UPS).

Micro Server PRIMERGY



Model	PRIMERGY MX130 S2
Туре	Mono socket micro server
Chipset	AMD 880G
Mainboard type	D3090
Processor type support	AMD Athlon™ II AMD Opteron™ 3000 series AMD FX series
Memory	2 GB - 16 GB, DIMM (DDR3) ECC
Memory protection	ECC
Accessible drives	DVD-ROM, SATA I DVD Super Multi, SATA I RDX Drive, 25 MB/s, 160 GB, 320 GB, 500 GB, 1 TB, USB 2.0
Slots - PCI-Express 2.0 x4 - PCI-Express 2.0 x16 - PCI-Express x1 - PCI-slots - Slot Notes	- 1 x Low profile max. length 180 mm - 1 x Low profile max. length 180 mm - 1 x Low profile max length 85 mm - 1 x Low profile max. length 180 mm - PCI 32/33 MHz, 3.3 V/5 V
Storage drive bays	Max 4 (2+2) x 3.5-inch (2 x Easy Change, 2 x screw-in) On project request through Fujitsu sales alternatively 2.5-inch configurations possible
Storage disks	HDD SATA 3.5-inch, 250 / 500 GB / 1 / 2 / 3 TB
I/O controller onboard - SATA Controller - RAID Controller - LAN Controller	- SATA II - 6 port SATA with RAID 0/1/10 for HDDs - 10/100/1000 Mbit/s Ethernet
Trusted Platform Module (TPM)	Infineon/1.2 (option)
Power supply configuration	1
Active Power	159 W (85 %, 80 PLUS bronze)
Weight	approx. 8 kg
Floorstand (WxDxH)	98×383×340 mm
Server Management	more information see chapter PRIMERGY ServerView Suite

Operating System	
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2012 Standard, Datacenter, Essentials, Foundation Microsoft® Hyper-V Server 2012 Microsoft® Windows Storage Server 2012 Standard Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Server® 2008 R2 Standard, Foundation Microsoft® Windows® Small Business Server Essentials 2011
Special features	Great price-performance ratio, very silent for use in office environments, small form factor. Excellent first server for small businesses.
Warranty	
Standard Warranty	1 year
Service Level	On-site Service
Maintenance and Support S	services - the perfect extension
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 4x7, 4h Onsite Response Time
Recommended Service	5x9, Onsite Response Time: next business day
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)



Model	PRIMERGY TX100 S3p
Туре	Mono socket economy tower
Chipset	Intel® C202
Mainboard type	D 3009
Processor type support	Intel® Celeron® processor Intel® Pentium® processor Intel® Core™ i3 processor Intel® Xeon® processor E3-1200v2 product family
Memory	2 GB - 32 GB, DIMM (DDR3)
Memory protection	ECC
Accessible drives	DVD-ROM, half height, SATA I DVD Super Multi, half height, SATA I Blu-ray Disc™ Triple Writer, half height, SATA I DDS Gen5, 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 RDX Drive, 100 MB/s, 320 GB, 500 GB, 1 TB, USB 3.0
Slots - PCI-Express 3.0 x8 (mech. x16) - PCI-Express 3.0 x8 - PCI-Express 2.0 x1	- 1 x - 1 x - 1 x notched for x16 cards
(mech. x4) - PCI-Express 2.0 x4 - Slot Notes:	- 1 x notched for x16 cards - In configurations with Intel® Core™ i3 or Intel® Pentium® processors slots are operated with PCI-Express 2.0
Storage drive bays	4x3.5-inch non hot-plug
Storage disks	HDD SATA 3.5-inch 250/500 GB/1/2/3 TB
I/O controller onboard - SATA Controller - RAID Controller - LAN Controller - LAN note	- Intel® C202 - 4 port SATA with RAID 0/1/10 for HDDs - 2x10/100/1000 Mbit/s Ethernet - PXE-Boot by LAN via PXE-Server, Teaming supported
Trusted Platform Module (TPM)	Infineon/1.2 (option)
Standard power supply output	250 W 0-Watt (94 % efficiency, 80 PLUS platinum)
Power supply configuration	1 x standard power supply
Weight	Up to 14 kg
Active power max.	209 W
Floorstand (WxDxH)	175 x 419 x 395 mm
Server Management	more information see chapter PRIMERGY ServerView Suite

Operating Systems and Virtualiz	ation Software
Certified or supported operating systems and virtualization software	Microsoft® Hyper-V Server 2012 Standard, Datacenter, Essentials, Foundation Microsoft® Windows Storage Server 2012 Standard Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Server® 2008 R2 Standard, Datacenter, Enterprise, Foundation Microsoft® Windows® Web Server 2008 R2 Microsoft® Windows® Small Business Server Standard, Essentials, Premium Add-on 2011 Microsoft® Windows® Server 2008 Standard, Enterprise Novell® SUSE Linux Enterprise Server 10, 11 Red Hat® Enterprise Linux 5, 6
Special features	Great price-performance ratio, highly efficient power supply with optional 0-Watt functionality, very silent for use in office environments. Excellent first server for SMEs looking for Intel® Xeon® support.
Warranty	
Standard Warranty	1 year
Service Level	On-site Service (depending on country)
Maintenance and Support Servi	· ·
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	7 x 24, Onsite Response Time: 4 h
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)



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Model	PRIMERGY TX120 S3p
Туре	Mono socket tower server
Chipset	Intel® C202
Mainboard type	D3049
Processor type support	Intel® Celeron® processor Intel® Core™ i3 processor Intel® Pentium® processor Intel® Xeon® processor E3-1200v2 product family
Memory	2 GB - 32 GB, DIMM (DDR3) UDIMM
Memory protection	ECC
Accessible drives	DVD Super Multi, slimline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I DDS Gen5 3.5", 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 RDX Drive, 100 MB/s, 320 GB, 500 GB, 1 TB, USB 3.0
Slots - PCI-Express 3.0 x16 - PCI-Express 2.0 x1 (mech. x4) - PCI-Express 2.0 x4 (mech. x8) - PCI-slots	- 1xLow profile - 1xLow profile - 1xLow profile. In SAS configuration (1xPCI-Express occupied by modular RAID controller) - 1xLow profile (PCI 32-bit/33 MHz, 5 V)
Storage drive bays	2x3.5-inch non hot-plug or 4x2.5-inch hot-plug
Storage disks	HDD SAS 2.5-inch, 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB HDD SATA 2.5-inch, 250 / 500 GB / 1 TB, HDD SATA 3.5-inch, 250 / 500 GB / 1 TB / 2 TB / 3 TB SSD SATA 3.5-inch, 100 / 200 / 400 GB
I/O controller onboard - SATA Controller - RAID Controller - LAN Controller - LAN note	- Intel® C202 - 4 port SATA with RAID 0/1/10 for HDDs - 2×10/100/1000 Mbit/s Ethernet (TCP/IP acceleration) - iSCSI and PXE-Boot via LAN, WoL for Intel® 82574L only.
Remote Management Controller	Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	Optional TPM
Standard power supply output	250 W (94 % efficiency, 80 PLUS platinum)
Power supply configuration	1 x standard power supply - with 0-Watt functionality
Active power (max.)	147 W
Weight	Up to 10 kg
Floorstand (WxDxH)	98 x 399 x 340 mm
Server Management	more information see chapter PRIMERGY ServerView Suite

Operating Systems and Virtualization Software		
Certified or supported operating systems and virtualization software	Microsoft® Hyper-V Server 2012 Microsoft® Windows Server® 2012 Standard, Datacenter, Essentials, Foundation Microsoft® Windows Storage Server 2012 Standard Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Server® 2008 R2 Standard, Datacenter, Enterprise, Foundation Microsoft® Windows® Web Server 2008 R2 Microsoft® Windows® Small Business Server Standard, Essentials, Premium Add-on 2011 Microsoft® Windows® Server 2008 Standard, Datacenter, Enterprise Microsoft® Windows® Web Server 2008 Novell® SUSE Linux Enterprise Server 10, 11 Red Hat® Enterprise Linux 5, 6	
Special features	Ultra-small form factor, best energy efficiency incl. 0-Watt functionality, very silent for use in office environments. Includes hot-plug storage drives and remote management controller (iRMC S3). Ideal for solutions where space is scarce.	
Warranty		
Standard Warranty	1 year	
Service Level	On-site Service (depending on country)	
Maintenance and Support Servi	ces - the perfect extension	
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time	
Recommended Service	7×24 , Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.	
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)	



Model	PRIMERGY TX140 S2
Туре	Mono socket tower server
Chipset	Intel® C224
_ '	D 3239
Mainboard type	
Processor type support	Intel® Core™ i3 processor Intel® Pentium® processor Intel® Xeon® processor E3-1200v3 product family
Memory	2 GB - 32 GB, DIMM (DDR3) UDIMM
Memory protection	ECC
Accessible drives	DVD-ROM, half height, SATA I DVD Super Multi, half height, SATA I Blu-ray Disc ^M Triple Writer, half height, SATA I Blu-ray Disc ^M Triple Writer, half height, SATA I DDS Gen5, 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 LTO3HH Ultrium, 60 MB/s, 400 GB, SAS 3Gb/s LTO3HH Ultrium, 120 MB/s, 800 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 1500 GB, SAS 6Gb/s LTO5HH Ultrium, 160 MB/s, 2500 GB, SAS 6Gb/s RDX Drive, 100 MB/s, 320 GB, 500 GB, 1 TB, USB 3.0
Slots - PCI-Express 3.0 x8 - PCI-Express 2.0 x1 (mech. x4) - PCI-Express 2.0 x4 (mech. x8) - Slot Notes	- 2x (up to 240 mm lenght) - 1x (up to 167 mm lenght) - 1x (up to 167 mm lenght) - In SAS configuration 1x PCI-Express occupied by modular RAID
	controller. In configurations with Intel® Core™ i3 or Intel® Pentium® processors slots are operated with PCI-Express 2.0
Storage drive bays	4x 3.5-inch hot-plug or 8 x 2.5-inch hot-plug
Storage disks	HDD SAS 2.5-inch 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB HDD SAS 3.5-inch 300 / 450 / 600 GB / 3 TB HDD SATA 2.5-inch 250 / 500 GB / 1 TB HDD SATA 3.5-inch 250 / 500 GB / 1 T2 / 3 TB SSD SATA 2.5-inch 100 / 200 / 400 GB
I/O controller onboard - SATA Controller	- Intel® C224, 2 ports used for accessible drives 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux
- RAID Controller - LAN Controller - LAN note	 Optionally integrated RAID 0/1 or RAID 5/6 controller for SAS base units (occupies one PCIe slot) 2 x 10/100/1000 Mbit/s Ethernet Intel® i217: 2xTX/2xRX, iSCSI remote boot support, APM wake up Intel® i210, 4xTX/4xRX, iSCSI and PXE 2.0-remote Boot via LAN,
- Remote Management Controller	WoL. Service LAN: Realtek RTL8211E - Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon/1.2 (option)
Standard power supply output	300 W (90 % efficiency, 80 PLUS silver)
Hot-plug power supply output	450 W (94 % efficiency, 80 PLUS platinum)
Power supply configuration	1xstandard, 1xhot-plug or 2xredundant hot-plug
Active power (max.)	203 W
Weight	12.5 - 23 kg
Floorstand (WxDxH)	177 x 560 x 455 mm
Rack (WxDxH)	483×495×175 mm (4 U)
Mounting Depth	543 mm
Server Management	· · · · · · · · · · · · · · · · · · ·
Jerver Management	more information see chapter PRIMERGY ServerView Suite

Operating Systems and Virtua	lization Software
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2012 Standard, Datacenter, Essentials, Foundation Microsoft® Hyper-V Server 2012 Microsoft® Windows Storage Server 2012 Standard Microsoft® Hyper-V™ Server 2008 R2 Standard, Datacenter, Enterprise, Foundation Microsoft® Windows® Web Server 2008 R2 Microsoft® Windows® Small Business Server Standard, Premium Add-on 2011 Novell® SUSE Linux Enterprise Server 11 Red Hat® Enterprise Linux 5, 6 VMware vSphere™ 5.5, 5.5 Embedded
Special features	Great scalability, very silent for use in office environments, high energy efficiency. Ideal as a file, mail and print server or for groupware solutions.
Warranty	
Standard Warranty	1 year
Service Level	On-site Service (depending on country)
Maintenance and Support Serv	vices - the perfect extension
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	7 x 24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)



Model	PRIMERGY TX150 S8
Туре	Mono socket Intel® Xeon® processor tower server
Chipset	Intel® C602
Mainboard type	D 3079
Processor type support	Intel® Pentium® processor Intel® Xeon® processor E5-1400 product family Intel® Xeon® processor E5-2400 product family
Memory	2 GB - 96 GB, DIMM (DDR3)
Memory protection	Advanced ECC, Memory Scrubbing, SDDC (Chipkill™), Hot-spare memory support, Memory Mirroring support
Accessible drives	DVD-ROM, half height, SATA I DVD Super Multi, half height, SATA I DVD Super Multi, slimline, SATA I Blu-ray Disc™ Triple Writer, half height, SATA I Blu-ray Disc™ Triple Writer, half height, SATA I DDS Gen5, 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 LTO3HH Ultrium, 60 MB/s, 400 GB, SAS 3Gb/s LTO4HH Ultrium, 120 MB/s, 800 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 1500 GB, SAS 6Gb/s LTO5HH Ultrium, 160 MB/s, 2500 GB, SAS 6Gb/s RDX Drive, 100 MB/s, 320 GB, 500 GB, 1 TB, USB 3.0
Slots - PCI-Express 3.0 x16 - PCI-Express 3.0 x4 (mech. x8)	- 1 x Full height 280mm max. length - 2 x Full height 280 mm max. length
- PCI-Express 2.0 x1	- 1 x Full height 170 mm length
(mech. x16) - PCI-Express 2.0 x4 (mech. x8)	- 1 x Full height 230 mm max length
- PCI-slots - Slot Notes	 1xPCI 32/33 MHz, 1xlong, 5V in SAS configuration 1xPCI-Express occupied by modular RAID controller.
Storage drive bays	8x3.5-inch hot-plug or 16x2.5-inch hot-plug
Storage disks	HDD SAS 2.5-inch, 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB HDD SAS 3.5-inch, 300 / 450 / 600 GB / 3 TB HDD SATA 2.5-inch, 250 / 320 / 500 GB / 1 TB HDD SATA 3.5-inch, 250 / 500 GB / 1 / 2 / 3 TB SSD SAS 2.5-inch, 100 / 200 / 400 GB SSD SATA 2.5-inch, 100 / 200 / 400 GB
I/O controller onboard	·
- SATA Controller - LAN Controller	 Intel® C602, 2 ports used for accessible drives 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux 2x10/100/1000 Mbit/s Ethernet
- LAN note	- 2xIntel Hartwell
- Remote Management Controller	 Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon/separate module; TCG V1.2 compliant (option)
Standard power supply output	500 W (90% efficiency, 80 PLUS gold)
Hot-plug power supply output	450 W (94% efficiency, 80 PLUS platinum)
Power supply configuration	Base unit specific: 1 xstandard power supply or 1 x hot-plug power supply or 2 x hot plug power supply for redundancy
Active power (max.)	278 W
Weight	16 - 29 kg
Floorstand (WxDxH)	177 x 651 x 456 mm
	402 644 477
Rack (WxDxH)	483×611×177 mm

Operating Systems and Virt	ualization Software
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2012 Standard, Datacenter, Essentials, Foundation Microsoft® Hyper-V Server 2012 Microsoft® Mindows Storage Server 2012 Standard Microsoft® Windows Storage Server 2012 Standard Microsoft® Windows Server 2008 R2 Microsoft® Windows Server 2008 R2 Standard, Datacenter, Enterprise Microsoft® Windows® Web Server 2008 R2 Microsoft® Windows® Small Business Server Standard, Essentials, Premium Add-on 2011 Microsoft® Windows® Server 2008 Standard, Datacenter, Enterprise VMware vSphere™ 5.0, 5.0 Embedded VMware vSphere™ 4.1, 4.1 Embedded VMware vSphere™ 4.1, 1.1 Embedded VMware VSphere™ 4.1 Installable Novell® SUSE Linux Enterprise Server 10, 10 with XEN, 11 Red Hat® Enterprise Linux 5, 5 with XEN, 6
Special features	Best performance in a one socket server, very silent for use in office environments. Ideal for databases, ERP & CRM software and virtualization solutions.
Warranty	
Standard Warranty	1 year
Service Level	On-site Service (depending on country)
Maintenance and Support S	Services - the perfect extension
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	7x24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)



Model	PRIMERGY TX200 S7	
Туре	Dual socket Intel® Xeon® processor tower server	
Chipset	Intel® C602	
Mainboard type	D 3099	
Processor type support	Intel® Xeon® processor E5-2400 product family	
Memory	2 GB - 192 GB, DIMM (DDR3)	
Memory protection	Advanced ECC, Memory Scrubbing, SDDC (Chipkill™), Memory Mirroring support, Rank sparing memory support	
Accessible drives	DVD-ROM, half height, SATA I DVD Super Multi, half height, SATA I DVD Super Multi, slimline, SATA I DVD Super Multi, slimline, SATA I Blu-ray Disc** Triple Writer, slimline, SATA I DDS Gen5, 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 LTO3HH Ultrium, 6 MB/s, 400 GB, SAS 3Gb/s LTO4HH Ultrium, 120 MB/s, 400 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 1500 GB, SAS 6Gb/s LTO5HH Ultrium, 160 MB/s, 2500 GB, SAS 6Gb/s RDX Drive, 100 MB/s, 320 GB, 500 GB, 1TB, USB 3.0	
Slots		
- PCI-Express 3.0 x16 - PCI-Express 3.0 x4	 - 2xFull height 280 mm max. length; second slot: 170 mm length (only available with second CPU) - 2xFull height 280 mm max. length 	
(mech. x8) - PCI-Express 2.0 x4	- 1 x Full height 230 mm max length; preferred RAID slot	
(mech. x8) - PCI-slots	-1x	
- Slot Notes	 in SAS configuration 1 x PCI-Express occupied by modular RAID controller 	
Storage drive bays	8x3.5-inch hot-plug or 16x2.5-inch hot-plug	
Storage disks	HDD SAS 2.5-inch, 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB HDD SAS 3.5-inch, 300 / 450 / 600 GB / 3 TB HDD SATA 2.5-inch, 250 / 500 GB / 1 TB HDD SATA 3.5-inch, 500 GB / 1 / 2 / 3 TB SSD SAS 2.5-inch, 100 / 200 / 400 GB SSD SATA 2.5-inch, 100 / 200 / 400 GB	
I/O controller onboard - SATA Controller	- Intel® C602, 6-port SATA (4xfor internal hard disks, 2xfor	
- LAN Controller	accessible drives) - 2 x 10/100/1000 Mbit/s Ethernet	
- LAN note	- 2xIntel Hartwell	
- Remote Management Controller	 Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible 	
Trusted Platform Module (TPM)	Infineon/separate module; TCG V1.2 compliant (option)	
Standard power supply output	800 W (94 % efficiency, 80 PLUS platinum / 96 % efficiency, 80 PLUS titanium)	
Hot-plug power supply output	450 W or 800 W (94% efficiency, 80 PLUS platinum)	
Power supply configuration	Base unit specific: 1 x standard power supply or 1 x hot-plug power supply or 2 x hot plug power supply for redundancy	
Active power (max.)	432 W	
Weight	Up to 29 kg	
Floorstand (WxDxH)	177 x 651 x 456 mm	
Rack (WxDxH)	483 x 611 x 177 mm	

Server Management	more information see chapter PRIMERGY ServerView Suite	
Operating Systems and Virtualization Software		
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2012 Standard, Datacenter Microsoft® Windows Storage Server 2012 Standard Microsoft® Hyper-V Server 2012 Microsoft® Hyper-V™ Server 2008 R2 Standard, Datacenter, Enterprise Microsoft® Windows® Web Server 2008 R2 Microsoft® Windows® Small Business Server Standard, Premium Add-On 2011 Microsoft® Windows® Server 2008 Standard, Datacenter, Enterprise VMware vSphere™ 5.0, 5.0 Embedded VMware vSphere™ 4.1, 4.1 Embedded, 4.1 Installable Novell® SUSE Linux Enterprise Server 10, 10 with XEN, 11 Red Hat® Enterprise Linux 5, 5 with XEN, 6 Citrix® XenServer®	
Special features	Affordable two socket performance, high energy efficiency, very silent for use in office environments. Ideal for client and server virtualization, databases and ERP & CRM solutions.	
Warranty		
Standard Warranty	3 years	
Service Level	On-site Service (depending on country)	
Maintenance and Support Service	es - the perfect extension	
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time	
Recommended Service	$7\!\times\!24,$ Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.	
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)	



Model	PRIMERGY TX300 S8	
Туре	Dual-Socket Intel® Xeon® processor tower server	
Chipset	Intel® C600 (Intel® Patsburg A)	
Mainboard type	D2949	
Processor type support	Intel® Xeon® processor E5-2600 v2 product family	
Memory	4 GB - 1536 GB, DIMM (DDR3)	
Memory protection	Advanced ECC, Memory Scrubbing, SDDC (Chipkill™), Memory Mirroring support, Rank sparing memory support	
Accessible drives	DVD-ROM, half height, SATA I DVD Super Multi, half height, SATA I DVD Super Multi, slimline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I DDS Gen5, 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 LTO3HH Ultrium, 60 MB/s, 400 GB, SAS 3Gb/s LTO3HH Ultrium, 120 MB/s, 800 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 1500 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 2500 GB, SAS 6Gb/s LTO5HH Ultrium, 160 MB/s, 2500 GB, SAS 6Gb/s RDX Drive, 100 MB/s, 320 GB, 500 GB, 1 TB, USB 3.0	
Slots - PCI-Express 3.0 x16 - PCI-Express 3.0 x8 (mech. x16)	- 2xFull height (2nd processor required) - 1xFull height	
- PCI-Express 3.0 x8 - PCI-Express 3.0 x4 (mech. x8)	- 4xFull height (1 is reserved for Modular RAID controller) - 2xFull height (2nd processor required)	
- PCI-Express 2.0 x4 (mech. x8)	- 1xFull height (2nd processor required)	
- Slot Notes	 One PCIe Gen3 x8 slot may be occupied with a modular LAN controller if configured. One PCIe Gen3 x8 slot may be occupied with a modular RAID controller if configured. Important: 5 PCIe slots are supported with the first processor. PCIE slots are supported with two processors. Possible slot lenght is described in the relevant system configurator. 	
Storage drive bays	12 x 3.5-inch hot-plug or 24 x 2.5-inch hot-plug	
Storage disks	HDD SAS 2.5-inch 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB HDD SAS 3.5-inch 300 / 450 / 600 GB / 3 TB HDD SATA 2.5-inch 250 /500 GB / 1 TB HDD SATA 3.5-inch 500 GB / 1 / 2 / 3 TB SSD SAS 2.5-inch 100 / 200 / 400 GB SSD SATA 2.5-inch 100 / 200 / 400 GB	
I/O controller onboard - SATA Controller - RAID Controller	- Intel® C600, 2xSATA channel for ODD - 4 port for internal 3G SATA and SAS (as upgrade option with SAS enabling key) for HDDs with RAID 0/1/10 or SAS LTO device	
- LAN Controller - LAN note	(Intel C600) - 2 x 10/100/1000 Mbit/s Ethernet (I/O acceleration) - Modular integrated on-board LAN offers upgrade options for additional 2x1 Gbit/s , 4x 1 Gbit/s or 2x 10 Gbit/s. PXE-Boot via LAN from PXE server, iSCSI boot (also diskless)	
- Remote Management Controller	 Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller), IPMI 2.0 compatible 	
GPU / Coprocessor / Graphic add on card	1-2 NVIDIA® Tesla™ K20 and K20X GPGPU 1-2 Intel® Xeon® Phi 3120P / 5110P / 7120P 1-2 NVIDIA® GRID™ K1	
Trusted Platform Module (TPM)	Infineon/separate module; TCG V1.2 compliant (option)	
Standard Power Supply output	800 W (94 % efficiency, 80 PLUS platinum / 96 % efficiency, 80 PLUS titanium)	

Power supply configuration	1-4 x 450 W / 800 W hot-plug power supply	
Active power (max.)	1070 W	
Weight	Up to 35 kg	
Floorstand (WxDxH)	177×777×456 mm	
Height Unit Rack	4 U	
Server Management	more information see chapter PRIMERGY ServerView Suite	
Operating Systems and Virtualiz	ation Software	
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2012 Standard, Datacenter Microsoft® Hyper-V Server 2012 Microsoft® Windows Storage Server 2012 Standard Microsoft® Windows Server® 2008 R2 Standard, Datacenter, Enterprise Microsoft® Windows® Small Business Server Standard, Premium Add-on 2011 Microsoft® Windows® Server 2008 Standard, Datacenter, Enterprise VMware vSphere™ 5.0, 5.0 Embedded VMware vSphere™ 4.1, 4.1 Embedded, 4.1 Installable Novell® SUSE Linux Enterprise Server 11 Red Hat® Enterprise Linux 5, 5 with XEN, 6 Citrix® XenServer®	
Special features	No compromise Tower Server offering maximum levels of performance, availability and expandability. Support for GPGPU cards. Ideal for virtualization scenarios, communication solutions and high performance computing.	
Warranty		
Standard Warranty	3 years	
Service Level	On-site Service (depending on country)	
Maintenance and Support Service	ces - the perfect extension	
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time	
Recommended Service	7 x 24, Onsite Response Time: 4 h	
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)	



Model	DDIMEDOV DV100 CO
	PRIMERGY RX100 S8
Туре	Mono socket Intel® Xeon® processor rack server (1 U)
Chipset	Intel® C224
Mainboard type	D 3229
Processor type support	Intel® Celeron® processor Intel® Core™ i3 processor Intel® Xeon® processor E3-1200v3 product family
Memory	2 GB - 32 GB, DIMM (DDR3) UDIMM
Memory protection	ECC
Accessible drives	DVD Super Multi, slimline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I
Slots - PCI-Express 3.0 x8 - PCI-Express 2.0 x4 (mech. x8) - Slot Notes	- 2 x Low profile max. length 175 mm, 1x slot may be occupied by Modular RAID - 1x Low profile - Optional support of 1x full height PCIe Gen3 x8 card, instead of
	1x PCIe Gen2 x4 and 1x PCIe Gen3 x8 In configurations with Intel® Core™ i3 or Intel® Pentium® processors slots are operated with PCI-Express 2.0.
Storage drive bays	4x 3.5-inch or 10x 2.5-inch
Storage disks	HDD SAS 2.5-inch 146/300/450/600/900 GB HDD SAS 3.5-inch 300/450/600 GB HDD SATA 2.5-inch 250/500 GB/1 TB HDD SATA 3.5-inch 250/500 GB/1/2/3 TB SSD SATA 2.5-inch 100/200/300 GB
I/O controller onboard - SATA Controller	- Intel® C224, 1 port used for accessible drive; 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux
- RAID Controller - LAN Controller	- Integrated RAID 0/1 or RAID 5/6 controller (option)
- LAN controller - LAN note	- 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration) - iSCSI, PXE-Boot and WoL are supported
- Remote Management Controller	 Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	Optional TPM
Standard power supply output	300 W (92 % efficiency, 80 PLUS gold)
Hot-plug power supply output	450 W (94 % efficiency, 80 PLUS platinum)
Power supply configuration	1xstandard power supply or 1xhot-plug power supply or 2xhot plug power supplies for redundancy
Weight	Up to 16 kg
Rack (WxDxH)	482.6 (Bezel) / 435.4 (Body) x 572 x 42.8 mm
Height Unit Rack	1 U
Server Management	more information see chapter PRIMERGY ServerView Suite

Operating Systems and Virtu	alization Software
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2008 R2 Standard, Foundation, Datacenter, Enterprise Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Web Server 2008 R2 Microsoft® Windows Small Business Server 2011 Standard, Premium Add-On Microsoft® Windows Server® 2012 Datacenter, Standard, Essentials, Foundation Microsoft® Windows Server® 2012 R2 Datacenter, Standard, Essentials, Foundation Microsoft® Windows Storage Server 2012 Standard Microsoft® Windows Storage Server 2012 R2 Standard Microsoft® Windows Storage Server 2012 R2 Standard Microsoft® Hynger-V Server 2012 Red Hat® Enterprise Linux 5, 6, 7 Novell® SUSE Linux Enterprise Server 11 VMware vSphere™ 5.0, 5.0 Installable, 5.0 Embedded VMware vSphere™ 5.1, 5.1 Installable, 5.1 Embedded VMware vSphere™ 5.5
Special features	Cool-safe Advanced Thermal Design
Warranty	
Standard Warranty	1 year
Service Level	On-site Service (depending on country)
Maintenance and Support Se	ervices - the perfect extension
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	7x24, Onsite Response Time: 4 h - For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)

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Model	PRIMERGY RX200 S8
Туре	Dual socket Intel® Xeon® processor rack server (1 U)
Chipset	Intel® C600 (Intel® Patsburg A)
Mainboard type	D 3302
Processor type support	Intel® Xeon® processor E5-2600 v2 product family
Memory	4 GB - 1536 GB, DIMM (DDR3)
Memory protection	Advanced ECC, Memory Scrubbing, SDDC (Chipkill™), Rank sparing memory support, Memory Mirroring support (as soon as released)
Accessible drives	DVD Super Multi, slimline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I
Slots - PCI-Express 3.0 x16 - PCI-Express 3.0 x8 - Slot Notes	- 1 x Low profile - 3 x Low profile - One PCle Gen3 x8 slot may be occupied with a Modular integrated on-board LAN controller if configured. One PCle Gen3 x8 slot may be occupied with a Modular RAID controller if configured. Possible slot length described in relevant system configurator.
Storage drive bays	4x2.5-inch or 8x2.5-inch
Storage disks	HDD SAS 2.5-inch 146/300/450/500/600/900 GB/1 TB HDD SATA 2.5-inch 250/500 GB/1 TB SSD SAS 2.5-inch 100/200/400 GB PCIe SSD 365 GB/785 GB/1.2 TB
I/O controller onboard - SATA Controller - RAID Controller - LAN Controller - LAN note - Remote Management Controller	- Intel® (600, 1xSATA channel for ODD - 4 port for internal 3G SATA and SAS (as upgrade option with SAS enabling key) for HDDs with RAID 0/1/10 (Intel C600), - 2x10/100/1000 Mbit/s Ethernet (I/O acceleration) - Modular integrated on-board LAN offers upgrade options for additional 2x1 Gbit/s , 4x 1 Gbit/s or 2x 10 Gbit/s PXE-Boot via LAN from PXE server, iSCSI boot (also diskless) - Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon/separate module; TCG V1.2 compliant (option)
Hot-plug power supply output	450 W (94 % efficiency, 80 PLUS platinum); 800 W (94 % efficiency, 80 PLUS platinum / 96 % efficiency, 80 PLUS titanium)
Power supply configuration	1-2×450 W/800 W hot-plug power supply
Active power max.	627 W
Weight	up to 18 kg
Rack (WxDxH)	482 (Bezel) / 431 (Body) x 762 x 43 mm
Height Unit Rack	1 U
Mounting Depth Rack	718 mm
Server Management	more information see chapter PRIMERGY ServerView Suite
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Operating Systems and Virtualization Software		
Certified or supported operating systems and virtualization software	Microsoft® Windows® Server 2008 Standard, Datacenter, Enterprise Microsoft® Windows HPC Server 2008 R2 Microsoft® Windows Server® 2012 Standard, Datacenter, Essentials Microsoft® Windows Server® 2012 R2 Standard, Datacenter, Essentials Microsoft® Hyper-V™ Server 2008 R2 Standard, Datacenter, Enterprise Microsoft® Hyper-V Server 2012 R2 Microsoft® Hyper-V Server 2012 R2 Microsoft® Hyper-V Server 2012 R2 Microsoft® Windows Storage Server 2012 R2 Standard Microsoft® Windows Storage Server 101 Embedded VMware vSphere™ 5.0, 5.0 Installable, 5.1 Embedded VMware vSphere™ 5.5 Novell® SUSE Linux Enterprise Server 11 Red Hat® Enterprise Linux 5, 5 with XEN, 6 Citrix® XenServer®	
Special features	Cool-safe Advanced Thermal Design	
Warranty		
Standard Warranty	3 years	
Service Level	On-site Service (depending on country)	
Maintenance and Support Servi	ces - the perfect extension	
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time	
Recommended Service	7 x 24, Onsite Response Time: 4 h	
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)	



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Model	PRIMERGY RX300 S8	
Туре	Dual socket Intel® Xeon® processor rack server (2 U)	
Chipset	Intel® C600 (Intel® Patsburg A)	
Mainboard type	D 2939	
Processor type support	Intel® Xeon® processor E5-2600 v 2 product family	
Memory	4 GB - 1536 GB, DIMM (DDR3)	
Memory protection	Advanced ECC, Memory Scrubbing, SDDC (Chipkill™), Rank sparing memory support, Memory Mirroring support,	
Accessible drives	DVD Super Multi, Slimline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I DDS Gen5 3.5*, 3 MB/s, 36 GB, USB 2.0 DDS Gen5 (for 3.5-inch HDD bay), 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 LTO3HH Ultrium, 6 MB/s, 400 GB, SAS 3Gb/s LTO5HH Ultrium, 120 MB/s, 400 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 1500 GB, SAS 6Gb/s LTO5HH Ultrium, 160 MB/s, 2500 GB, SAS 6Gb/s RDX Drive, 100 MB/s, 320 GB, 500 GB, 1TB, USB 3.0	
Slots - PCI-Express 3.0 x16 - PCI-Express 3.0 x8 - Slot Notes	- 2 x Low profile (2nd processor required) - 5 x Low profile - One PCle Gen3 x8 slot may be occupied with a Modular integrated on-board LAN controller if configured. One PCle Gen3 x8 slot may be occupied with a Modular RAID controller if configured. Important: 5 PCle x8 slots are supported with the first processor. 7 PCle slots (including 2 PCle x16) are supported with two processors. Possible slot length described in relevant system onfigurator.	
Storage drive bays	16 x 2.5-inch or 6 x 3.5-inch	
Storage disks	HDD SAS 2.5-inch 146/300/450/500/600/900 GB / 1 TB HDD SAS 3.5-inch 300/450/600 GB / 3 TB HDD SATA 2.5-inch 250/500 GB/1 TB HDD SATA 3.5-inch 500 GB/1/2/3 TB SSD SATA 2.5-inch 100/200/400 GB SSD SATA 2.5-inch 100/200/400 GB PCIe SSD 365 GB / 785 GB / 1.2 TB	
I/O controller onboard - SATA Controller - RAID Controller - LAN Controller - LAN note	- Intel® C600, 1 x SATA channel for ODD - 4 port for internal 3G SATA and SAS (as upgrade option with SAS enabling key) for HDDs with RAID 0/1/10 or SAS LTO device (Intel C600), additional RAID controller options are described under Components RAID controller - 2 x 10/100/1000 Mbit/s Ethernet (I/O acceleration) - Modular integrated on-board LAN offers upgrade options for additional 2x1 Gbit/s , 4x 1 Gbit/s or 2x 10 Gbit/s.	
- Remote Management Controller	PXE-Boot via LAN from PXE server, iSCSI boot (also diskless) - ntegrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller), IPMI 2.0 compatible	
Trusted Platform Module (TPM)	Infineon/separate module; TCG V1.2 compliant (option)	
Hot-plug power supply output	450 W (94 % efficiency, 80 PLUS platinum); 800 W (94 % efficiency, 80 PLUS platinum / 96 % efficiency, 80 PLUS titanium)	
Power supply configuration	1-2×450 W/800 W hot-plug power supply	
Active power max.	830 W	
Weight	Up to 25 kg	
Rack (WxDxH)	482.6 (Bezel) / 445 (Body) x 770 x 85.9 mm	
Height Unit Rack	2U	
Mounting Depth Rack	735 mm	

more information see chapter PRIMERGY ServerView Suite

Server Management

Operating Systems and Virt	ualization Software
Certified or supported operating systems and virtualization software	Microsoft® Windows® Server 2008 Standard, Datacenter, Enterprise Microsoft® Windows HPC Server 2008 R2 Microsoft® Windows Server® 2012 Standard, Datacenter Microsoft® Windows Server® 2012 R2 Standard, Datacenter Microsoft® Hyper-V™ Server 2008 R2 Standard, Datacenter, Enterprise Microsoft® Hyper-V Server 2012 R2 Microsoft® Windows Storage Server 2012 Standard Microsoft® Windows Storage Server 2012 R2 Standard Microsoft® Windows Storage Server 2012 R2 Standard Microsoft® Windows Storage Server 2012 R2 Standard Microsoft® Windows® Small Business Server Standard, Premium Add-on 2011 VMware vSphere™ 5.0, 5.0 Installable, 5.0 Embedded VMware vSphere™ 5.1, 5.1 Installable, 5.1 Embedded VMware vSphere™ 5.5 Novell® SUSE Linux Enterprise Server 11 Red Hat® Enterprise Linux 5, 5 with XEN, 6 Citrix® XenServer®
Special features	Cool-safe Advanced Thermal Design
Warranty	
Standard Warranty	3 years
Service Level	On-site Service (depending on country)
Maintenance and Support S	ervices - the perfect extension
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	7 x 24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)



Model	PRIMERGY RX350 S8	
Туре	Dual socket Intel® Xeon® processor rack server (4 U)	
Chipset	Intel® C600 (Intel® Patsburg A)	
Mainboard type	D2949	
Processor type support	Intel® Xeon® processor E5-2600 v2 product family	
Memory	4 GB - 1536 GB, DIMM (DDR3)	
Memory protection	Advanced ECC, Memory Scrubbing, SDDC (Chipkill™), Rank sparing memory support , Memory Mirroring support	
Accessible drives	DVD-ROM, half height, SATA I DVD Super Multi, half height, SATA I DVD Super Multi, slmline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I DDS Gen5, 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 LTO3HH Ultrium, 60 MB/s, 400 GB, SAS 3Gb/s LTO4HH Ultrium, 120 MB/s, 800 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 1500 GB, SAS 6Gb/s LTO5HH Ultrium, 160 MB/s, 2500 GB, SAS 6Gb/s RDX Drive, 100 MB/s, 320 GB, 500 GB, 1 TB, USB 3.0	
Slots - PCI-Express 3.0 x16 - PCI-Express 3.0 x8	- 2xFull height (2nd processor required) - 1xFull height	
(mech. x16) - PCI-Express 3.0 x8 - PCI-Express 3.0 x4	- $4x$ Full height (here of 1 is reserved for Modular RAID controller) - $2x$ Full height (2nd processor required)	
(mech. x8) - PCI-Express 2.0 x4 (mech. x8)	- 1 x Full height (2nd processor required)	
- Slot Notes	 One PCle Gen3 x8 slot may be occupied with a Modular integrated on-board LAN controller if configured. One PCle Gen3 x8 slot may be occupied with a modular RAID controller if configured. Important: 5 PCle slots are supported with the first processor. PCle slots are supported with two processors. Possible slot length described in relevant system onfigurator. 	
Storage drive bays	12x3.5-inch or 24x2.5-inch	
Storage disks	HDD SAS, 2.5-inch 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB HDD SAS, 3.5-inch 300 / 450 / 600 GB / 3 TB HDD SATA, 2.5-inch 250 / 500 GB / 1 TB HDD SATA, 3.5-inch 500 GB / 1 / 2 / 3 TB SSD SAS, 2.5-inch 200 / 400 GB SSD SATA, 2.5-inch 100 / 200 / 300 GB	
I/O controller onboard - SATA Controller - RAID Controller	 Intel® C600, 2xSATA channel for DVD 4 port for internal 3G SATA and SAS (as upgrade option with SAS enabling key) for HDDs with RAID 0/1/10 or SAS LTO device (Intel C600), additional RAID controller options are described under Components RAID controller 	
- LAN Controller - LAN note	Components Not Controlled 2x 10/100/1000 Mbit/s Ethernet (I/O acceleration) - Modular integrated on-board LAN offers upgrade options for additional 2x1 Gbit/s , 4x 1 Gbit/s or 2x 10 Gbit/s . PXE-Boot via LAN from PXE server, iSCSI boot (also diskless)	
- Remote Management Controller	 Integrated Remote Management Controller (iRMC S4, 256 MB attached memory incl. graphics controller), IPMI 2.0 compatible 	
GPU / Coprocessor / Graphic add on card	1-2 NVIDIA® Tesla™ K20 and K20X GPGPU, 1-2 Intel® Xeon® Phi 3120P / 5110P / 7120P coprocessor 1-2 NVIDIA® GRID™ K1	
Trusted Platform Module (TPM)	Infineon/separate module; TCG V1.2 compliant (option)	
Hot-plug power supply output	450 W (94 % efficiency, 80 PLUS platinum); 800 W (94 % efficiency, 80 PLUS platinum / 96 % efficiency, 80 PLUS titanium)	
Power supply configuration	1-4×450 W/800 W hot-plug power supply	

Active power max.	1070 W		
Weight	Up to 35 kg		
Rack (WxDxH)	482.6 (Bezel) / 444 (Body) x 748 x 286 mm		
Height Unit Rack	4U		
Mounting Depth Rack	700 mm		
Server Management	more information see chapter PRIMERGY ServerView Suite		
Operating Systems and Virtualiz	ration Software		
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2008 Standard, Enterprise Microsoft® Windows Server® 2012 Standard, Datacenter Microsoft® Windows Server® 2012 R2 Standard, Datacenter Microsoft® Hyper-™ Server 2018 R2 Standard, Datacenter, Enterprise Microsoft® Hyper-V Server 2012 R2 Microsoft® Windows® Storage Server 2012 Standard Microsoft® Windows® Storage Server 2012 R2 Standard Microsoft® Windows® Storage Server 2012 R2 Standard Microsoft® Windows® Storage Server 2012 R2 Standard Microsoft® Windows® Small Business Server Standard, Premium Add-on 2011 VMware vSphere™ 5.0, 5.0 Installable, 5.0 Embedded VMware vSphere™ 5.1, 5.1 Installable, 5.1 Embedded VMware vSphere™ 5.5, Novell® SUSE Linux Enterprise Server 11 Red Hat® Enterprise Linux 5, 5 with XEN, 6 Citrix® XenServer®		
Warranty			
Standard Warranty	3 years		
Service Level	On-site Service (depending on country)		
Maintenance and Support Service	ces - the perfect extension		
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time		
Recommended Service	7x24, Onsite Response Time: $4h$ – For locations outside of EMEA please contact your local Fujitsu partner.		
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)		



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Model	PRIMERGY RX500 S7
Туре	Quad socket Intel® Xeon® processor rack server (4 U)
Chipset	Intel® C600
Mainboard type	D3039
Processor type support	Intel® Xeon® processor E5-4600
Memory	8 GB - 1536 GB, DIMM (DDR3)
Memory protection	Advanced ECC, Memory Scrubbing, SDDC (Chipkill™), Memory Mirroring support, Rank sparing memory support
Accessible drives	DVD Super Multi, slimline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I DDS Gen5, 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 LTO3HH Ultrium, 60 MB/s, 400 GB, SAS 3Gb/s LTO4HH Ultrium, 120 MB/s, 800 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 1500 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 2500 GB, SAS 6Gb/s LTO5HH Ultrium, 160 MB/s, 2500 GB, SAS 6Gb/s RDX Drive, 100 MB/s, 320 GB, 500 GB, 1TB, USB 3.0
Slots - PCI-Express 3.0 x16 - PCI-Express 3.0 x8 - Slot Notes	- 2xFull height - 9xFull height (here of 1 is reserved for Modular RAID controller) - One PCle Gen3 x8 slot may be occupied with a modular LAN controller if configured. Important: 5 PCle x8 and 2 PCle x16 slots are supported with the 1.72. processor. 4 additional PCle x8 slots are supported only with 3.74. processor.
Storage drive bays	8x2.5-inch
Storage disks	HDD SAS 2.5-inch, 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB SSD SAS 2.5-inch, 100 / 200 / 300 GB, SSD SATA 2.5-inch, 100 / 200 / 400 GB, PCIe SSD, 785 GB / 1.2 TB
I/O controller onboard - SATA Controller - RAID Controller - LAN Controller Server - LAN note	- Intel® C600, 1xSATA channel for ODD - 4 port for internal 3G SATA HDDs with RAID 0/1/10 (Intel® C600), upgradeable by SAS Enabeling Key to connect SAS LTO devices, additional RAID controller options are described under Components RAID controller - 2x10/100/1000 Mbit/s Ethernet (I/O acceleration) - Modular integrated on-board LAN offers upgrade options for additional 2x1 Gbit/s, 4x1 Gbit/s or 2x10 Gbit/s. PXE-Boot via LAN from PXE server, iSCSI boot (also diskless)
- Remote Management Controller	Integrated Remote Management Controller (iRMC S3, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon/separate module; TCG V1.2 compliant (option)
Hot-plug power supply output	450 W (94 % efficiency, 80 PLUS platinum); 800 W (94 % efficiency, 80 PLUS platinum / 96 % efficiency, 80 PLUS titanium)
Power supply configuration	1-4×800 W hot-plug power supply
Active power max.	1400 W
Weight	max. 35 kg
Rack (WxDxH)	482.6 mm (Bezel) / 448 mm (Body) x 767.4 x 176 mm
Height Unit Rack	4 U
Mounting Depth Rack	743 mm
Server Management	more information see chapter PRIMERGY ServerView Suite

Operating	Sychomo	and	Virtualization	Software
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Certified or supported operating systems and	Microsoft® Windows Server® 2008 Standard, Enterprise Microsoft® Windows Server® 2012 Standard, Datacenter
virtualization software	Microsoft® Windows Server® 2012 R2 Standard, Datacenter Microsoft® Hyper-V™ Server 2008 R2 Standard, Datacenter, Enterprise Microsoft® Hyper-V Server 2012 Microsoft® Hyper-V Server 2012 R2
	Microsoft® Windows® Storage Server 2012 Standard Microsoft® Windows® Storage Server 2012 R2 Standard VMware vSphere™ 4.1, 4.1 Installable, 4.1 Embedded VMware vSphere™ 5.0, 5.0 Installable, 5.0 Embedded VMware vSphere™ 5.1, 5.1 Installable, 5.1 Embedded Novell® SUSE Linux Enterprise Server 10, 11 Red Hat® Enterprise Linux 5, 5 with XEN, 6 Citrix® XenServer®
Warranty	
Service Level	On-site Service
Standard Warranty Service Level	3 years On-site Service (depending on country)

	Maintenance a	ind Support	Services - the	perfect extension
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Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	7 x 24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
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Model	PRIMERGY RX600 S6
Туре	Quad socket Intel® Xeon® processor rack server (4 U)
Chipset	Intel® 7500/7510 Scalable Memory Buffer
Mainboard type	D 3141
Processor type support	Intel® Xeon® processor E7-2800 product family Intel® Xeon® processor E7-4800 product family Intel® Xeon® processor E7-8800 product family
Memory	8 GB - 2048 GB, DIMM (DDR3) LV
Memory protection	Advanced ECC, SDDC, Memory Scrubbing, Memory DIMM Sparing support, Memory Mirroring support
Accessible drives	DVD Super Multi, slimline, SATA I Blu-ray Disc ^{IM} Tiple Writer, slimline, SATA I DDS Gen5, 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 LTO3HH Ultrium, 60 MB/s, 400 GB, SAS 3Gb/s LTO4HH Ultrium, 120 MB/s, 800 GB, SAS 6Gb/s LTO5HH Ultrium, 140 MB/s, 1500 GB, SAS 6Gb/s LTO5HH Ultrium, 160 MB/s, 2500 GB, SAS 6Gb/s LTO6HH Ultrium, 160 MB/s, 2500 GB, SAS 6Gb/s RDX Drive, 100 MB/s, 320 GB, 500 GB, 1 TB, USB 3.0
Slots - PCI-Express 2.0 x4 (mech. x8) - PCI-Express 2.0 x8 - PCI-Express 2.0 x16 - PCI-Express x4 (mech. x8)	- 3xFull height (2x% length, 1x% length) - 4xFull height (all % length, 2xhot-plug) - 1xFull height (all % length) - 2xHalf height (all % length)
Storage drive bays	8x2.5-inch
Storage disks	HDD SAS 2.5-inch, 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB SSD SAS 2.5-inch, 100 / 200 / 400 GB SSD SATA 2.5-inch, 100 / 200 / 400 GB PCIe SSD, 365 / 785 GB / 1.2 TB
I/O controller onboard - RAID Controller	8 Port SAS RAID 0/1 or RAID 5/6 controller as option , additional RAID controller options are described under Components RAID controller
- LAN Controller - LAN note - Remote Management Controller	 - 4x 10/100/1000 Mbit/s Ethernet - TCP/IP acceleration, PXE boot via LAN from PXE server - Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon/separate module; TCG V1.2 compliant (option)
Max. output of single power supply	850 W (92% efficiency, 80 PLUS gold)
Power supply configuration	Up to 4 hot plug power supplies. Base unit equipped with 2 power supplies, 3rd and 4th PSU as option
Active power (max.)	1790 W
Weight	Max. 46 kg
Rack (WxDxH)	482.6 mm (Bezel) / 445mm (Body) x 765 x 176 mm
Height Unit Rack	4U
Mounting Depth Rack	728 mm
Server Management	more information see chapter PRIMERGY ServerView Suite

Operating Systems and Virtu	ualization Software
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2012 Standard, Datacenter Microsoft® Hyper-V Server 2012 Microsoft® Hyper-W Server 2008 R2 Microsoft® Windows Server® 2008 R2 Standard, Datacenter, Enterprise VMware vSphere™ 5.0, 5.0 Embedded VMware vSphere™ 4.1, 4.1 Embedded, 4.1 Installable Novell® SUSE Linux Enterprise Server 10, 10 with XEN, 11 Red Hat® Enterprise Linux 5, 5 with XEN, 6 Citrix® XenServer® VMware vSphere™ 5.1, 5.1 Embedded, 5.1 Installable VMware vSphere™ 5.5 Microsoft® Windows Server® 2012 R2 Datacenter, Standard
Special features	Memory mirroring support, memory spairing, socket-overlapping mirroring with hot-plug Memory Boards, ECC and SDDC; hot-plug redundant fan and power supply as standard, LocalView display and integrated Remote Management Controller (iRMC S2) IPMI 2.0 as standard, RemoteView optional. Diagnostic LEDs, PDA, ASR& R, 19-inch Rack housing
Warranty	
Standard Warranty	3 years
Service Level	On-site Service (depending on country)
Maintenance and Support S	ervices - the perfect extension
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	7 x 24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)



	PRINCES NAME OF		
Model	PRIMERGY RX900 S2		
Туре	8 socket Intel® Xeon® processor rack server (8 U)		
Chipset	Intel® 7500/7510 Scalable Memory Buffer		
Mainboard type	D 3144		
Processor type support	Intel® Xeon® processor E7-8800 product family		
Memory	8 GB - 4096 GB, DIMM (DDR3) registered		
Memory protection	Advanced ECC, Memory Scrubbing, SDDC (Chipkill™), Memory Mirroring support		
Accessible drives	DVD Super Multi, slimline, SATA I Blu-ray Disc™ Triple Writer, slimline, SATA I		
Slots - PCI-Express 2.0 x4 (mech. x8)	- 2xFull height (all ½ length)		
- PCI-Express 2.0 x8	- 14xFull height (all ½ length, 4xhot-plug)		
Storage drive bays	8x2.5-inch		
Storage disks	HDD SAS 2.5-inch, 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB SSD SAS 2.5-inch, 100 / 200 / 400 GB, SSD SATA 2.5-inch, 100 / 200 / 400 GB, PCIe SSD, 785 GB / 1.2 TB		
I/O controller onboard - RAID Controller	8 Port SAS RAID 5/6 controller as option, additional RAID controller options are described under Components RAID controller		
- LAN Controller - LAN note	 - 2x10 Gbit/s Ethernet; 6x10/100/1000 Mbit/s Ethernet - TCP/IP acceleration, PXE boot via LAN from PXE server, iSCSI boot (also diskless) via onboard LAN 		
- Remote Management Controller	 Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible 		
Trusted Platform Module (TPM)	Infineon/separate module; TCG V1.2 compliant (option)		
Max. output of single power supply	2.000 W (92% efficiency, 80 PLUS gold)		
Power supply configuration	Up to 4 hot plug power supplies. Base unit equipped with 2 power supplies, redundancy as option.		
Active power (max.)	2800 W		
Weight	max. 85 kg		
Rack (WxDxH)	482.6 x 724 x 352 mm		
Height Unit Rack	8U		
Mounting Depth Rack	724 mm		
Server Management	more information see chapter PRIMERGY ServerView Suite		
	-		

Operating Systems and Virtuali	zation Software
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2012 Standard, Datacenter Microsoft® Hyper-V Server 2012 Microsoft® Windows Server® 2008 R2 Datacenter, Enterprise Microsoft® Windows® Server 2008 Standard, Datacenter, Enterprise VMware vSphere™ 5.0, 5.0 Embedded VMware vSphere™ 5.1, 4.1 Embedded, 4.1 Installable Red Hat® Enterprise Linux 5, 5 with XEN Oracle® VM 3.0 VMware vSphere™ 5.1, 5.1 Embedded, 5.1 Installable VMware vSphere™ 5.1, 5.1 Embedded, 5.2 Installable VMware vSphere™ 5.5 Microsoft® Windows Server® 2012 R2 Datacenter, Standard
Special features	The scalable PRIMERGY RX900 S2 Octo socket 80 cores server provides enterprise performance class for x86 servers, which starts where the 4 way x86 server class is ending up! This server enables enterprises to run even their most demanding business critical workloads and virtualization projects on a x86 environment with peace of mind at a lower total cost while retaining all the attributes for a constantly reliable IT production.
Warranty	
Standard Warranty	3 years
Service Level	On-site Service (depending on country)
Maintenance and Support Servi	ices - the perfect extension
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	7x24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)

Blade Servers PRIMERGY



Model	PRIMERGY BX400 S1			
Characteristics	Affordable and fully-featured blade system built from the ground up to be user-friendly and versatile, saving time and costs for midsized companies.			
System unit type	6 U chassis for 19-inch rack, or floorstand version			
Dimensions (WxDxH)	366×819×578 mm (Floorstand) 445×785×267 mm (Rack)			
Weight	Rack: up to 98 kg/Floorstand: up to 112.5 kg			
Front bays	8 half height bays for server or storage blades			
Midplane	High speed midplane with 3 fabrics			
Rear bays	4xfor Connection Blades 4xfor PSU/fan modules			
Management Blades	1xhot-plug management blade as standard, redundant management blades as option			
Fan configuration	Up to 3 additional hot-plug, redundant fan modules			
Power supply configuration	Up to 4xhot-plug power supply modules (1xas standard)			
Operating panel - Operating buttons - Status LEDs	On/off switch/ID button Power (amber/green); System status (orange/yellow); Identification (blue)			
- Service display	- ServerView Local Service Display for Blade (LSB)			
Warranty				
Standard Warranty	3 years			
Service Level	On-site Service (depending on country)			
Maintenance and Support Se	rvices - the perfect extension			
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time			
Recommended Service	7x24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.			
Service Lifecycle	5 years after end of product life			

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Product Model name	Product Type	Processor quantity support	Max. number per system unit	Memory Slots	Memory capacity (min max.)
PRIMERGY BX920 S3	Dual Socket Server Blade (Intel)	1 - 2	8	12	4 GB - 384 GB
PRIMERGY BX924 S4	Dual Socket Server Blade (Intel)	1 - 2	8	24	4 GB - 1536 GB
PRIMERGY SX910 S1	Storage Blade Tape		4		
PRIMERGY SX940 S1	Storage Blade Disk		4		
PRIMERGY SX960 S1	Storage Blade Disk		2		
PRIMERGY SX980 S2	Storage Blade Disk		2		

Connection Blades (CB) pluggable into system unit rear side

Connection type	Down-link ports	Up-link ports	Max. number per system unit
Eth Fabric Switch 10Gbit/s 18/6+6 Brocade VDX 2730	18 x 10 Gbit/s Eth 6 x 10 Gbit/s Eth (SFP+)	6×10 Gb Eth (SFP+) 6×4/8 Gb Fibre Channel (SFP/SFP+)	4 (CB Slot 1/2 3/4)
Eth FEX 10Gb 16/8	16 x 10 Gbit/s Eth	8 x 10 Gb (SFP+)	4 (CB Slot 1/2 3/4)
Eth Pass Thru 10 Gb 18/18	18 x 1/10 Gb Eth	18 x 1/10 Gb (SFP/SFP+/Twinax)	4 (CB Slot 1/2 3/4)
Eth Switch/IBP 10 Gb 18/8	18 x 10 Gb Eth	8 x 10 Gb (SFP+)	4 (CB Slot 1/2 3/4)
Eth Switch/IBP 1 Gb 18/6	18x1 Gb Eth	6x1 Gb (RJ45)	4 (CB Slot 1/2 3/4)
Eth Switch/IBP 1 Gb 36/12	36 x 1 Gb Eth	8x1 Gb (RJ45), 4x1 Gb (SFP)	4 (CB Slot 1/2 3/4)
Eth Switch/IBP 1 Gb 36/8+2	36 x 1 Gb Eth	8x1 Gb (RJ45), 2x10 Gb (SFP+)	4 (CB Slot 1/2 3/4)
FC Pass Thru 8 Gb 18/18	18 x 8 Gb FC	18 x 4/8 Gb (SFP/SFP+)	2 (CB Slot 3/4)
FC Switch 8 Gb Brocade 14 Port	18 x 8 Gb FC	8 x 4/8 Gb (SFP/SFP+)	2 (CB Slot 3/4)
FC Switch 8 Gb Brocade 26 Port	18 x 8 Gb FC	8 x 4/8 Gb (SFP/SFP+)	2 (CB Slot 3/4)
FC Switch 8 Gb Brocade 26 Port Enterprise	18 x 8 Gb FC	8 x 4/8 Gb (SFP/SFP+)	2 (CB Slot 3/4)
IB Switch 40 Gb 18/18	18 x 40 Gb IB	18 x 40 Gb (QSFP)	1 (CB Slot 3/4)
IB Switch 56 Gb 18/18	18 x 56 Gbit/s IB	18 x 56 Gb (QSFP)	1 (CB Slot 3/4)
SAS Switch 6 Gb 18/6	18x6 Gb SAS	6 x 6 Gb SAS	2 (CB Slot 3/4)

Blade Servers PRIMERGY



Model	PRIMERGY BX900 S2		
Characteristics	Complete dynamic server infrastructure in a single chassis for enterprise data centers. Next generation blade server ecosystem designed for constantly changing IT environments.		
System unit type	10 U chassis for 19-inch rack		
Dimensions (WxDxH)	482.6 (Bezel) / 445 (Body) x 778 x 438 mm		
Weight	Up to 191 kg		
Front bays	18 half height or 9 full height bays for server or storage blades		
Midplane	High speed midplane with 4 redundant fabrics		
Rear bays	8xfor Connection Blades (2 Connection Blades per fabric) 6xfor PSU modules		
Management Blades	1×hot-plug Management Blade as standard, redundant Management Blade as option		
Fan configuration	up to 3 additional hot-plug, redundant fan modules		
Power supply configuration	Up to 6 x hot-plug power supply module, 3 x as minimum (4th to 6th power supply module neccessary for redundancy, and depending on system configuration)		
Operating panel - Operating buttons - Status LEDs - Service display	- On/off switch / ID button - Power (amber / green); System status (orange); Identification (blue) - ServerView Local Service Display for Blade (LSB)		
Warranty			
Standard Warranty	3 years		
Service Level	On-site Service (depending on country)		
Maintenance and Support Servi	ces - the perfect extension		
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time		
Recommended Service	7x24, Onsite Response Time: 4 h		
Service Lifecycle	5 years after end of product life		

		unit front side

Product Model name	Product Type	Processor quantity support	Max. number per system unit	Memory Slots	Memory capacity (min max.)
PRIMERGY BX920 S3	Dual Socket Server Blade (Intel)	1 - 2	18	12	4 GB - 384 GB
PRIMERGY BX924 S4	Dual Socket Server Blade (Intel)	1 - 2	18	24	4 GB - 1536 GB
PRIMERGY SX910 S1	Storage Blade Tape		6		
PRIMERGY SX940 S1	Storage Blade Disk		6		
PRIMERGY SX960 S1	Storage Blade Disk		2		
PRIMERGY SX980 S2	Storage Blade Disk		max. 6, (for the US market max. 3x SX980 S2 can be installed)		

Connection Blades (CB) pluggable into system unit rear side

Connection type	Down-link ports	Up-link ports	Max. number per system unit
Eth Fabric Switch 10Gbit/s 18/6+6 Brocade VDX 2730	18×10 Gbit/s Eth 6×10 Gbit/s Eth (SFP+)	6 x 10 Gb Eth (SFP+) 6 x 4/8 Gb Fibre Channel (SFP/SFP+)	6 (CB Slot 1/2 3/4 5/6)
Eth FEX 10Gb 16/8	16 x 10 Gbit/s Eth	8 x 10 Gb (SFP+)	6 (CB Slot 1/2 3/4 5/6)
Eth Pass Thru 10 GB 18/18	18 x 1/10 GB Eth	18 x 1/10 GB (SFP/SFP+/Twinax)	6 (CB Slot 1/2 3/4 5/6)
Eth Switch/IBP 10 GB 18/8	18 x 10 GB Eth	8 x 10 GB (SFP+)	6 (CB Slot 1/2 3/4 5/6)
Eth Switch/IBP 1 GB 18/6	18x1 GB Eth	6x1 GB (RJ45)	8 (CB Slot 1/2 3/4 5/6 7/8)
Eth Switch/IBP 1 GB 36/12	36 x 1 GB Eth	8 x 1 GB (RJ45), 4 x 1 GB (SFP)	8 (CB Slot 1/2 3/4 5/6 7/8)
Eth Switch/IBP 1 GB 36/8+2	36 x 1 GB Eth	8 x 1 GB (RJ45), 2 x 10 GB (SFP+)	8 (CB Slot 1/2 3/4 5/6 7/8)
FC Pass Thru 8 GB 18/18	18x8 GB FC	18 x 4/8 GB (SFP/SFP+)	4 (CB Slot 3/4 5/6)
FC Switch 8 GB Brocade 14 Port	18 x 8 GB FC	8 x 4/8 GB (SFP/SFP+)	4 (CB Slot 3/4 5/6)
FC Switch 8 GB Brocade 26 Port	18 x 8 GB FC	8 x 4/8 GB (SFP/SFP+)	4 (CB Slot 3/4 5/6)
FC Switch 8 GB Brocade 26 Port Enterprise	18 x 8 GB FC	8 x 4/8 GB (SFP/SFP+)	4 (CB Slot 3/4 5/6)
IB Switch 40 GB 18/18	18×40 GB IB	18 x 40 GB (QSFP)	3 (CB Slot 3/4 5/6 7/8)
IB Switch 56 GB 18/18	18x56 GB IB	18 x 56 GB (QSFP)	3 (CB Slot 3/4 5/6 7/8)
SAS Switch 6 Gb 18/6	18x6 Gb SAS	6 x 6 Gb SAS	2 (CB Slot 3/4)

Multi-Node Cloud Servers PRIMERGY



Model	PRIMERGY CX400 S2	
Characteristics	Rack optimized enclosure for double dense server nodes providing high efficiency and best serviceability for various datacenter (cloud) scenarios.	
System unit type	2 U chassis for 19-inch rack	
Weight	up to 38 kg plus 2.5 for rack rails	
Front bays	Storage drives: 12x 3.5-inch or 24x 2.5-inch (HDD, SSD)	
Rear bays	4 bays for half wide server trays CX2y0 2 x for PSU	
Fan configuration	4 non hot-plug fans	
Max. input of single power supply	1400 W (92% efficiency); 1200 W (94% efficiency)	
Power supply configuration	2x hot-plug power supply modules	
Operating panel - Operating buttons -Status LEDs	- On/off switch/ID button - Identification (blue) Power (green)	
Warranty		
Standard Warranty	3 years	
Service Level	On-site Service (depending on country)	
Maintenance and Support	Services - the perfect extension	
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.	
Service Lifecycle	5 years	

Cloud Server Nodes Product Model name Processor quantity support Supported capacity RAM (max.) Number of Storage drives (max. Product Number of Memory Slots Туре 6x 2.5-inch PRIMERGY **Dual Socket** 4 16 1024 GB CX250 S2 1U Server or 3x Node 3.5-inch in CX400 S2 2 4x 2.5-inch PRIMERGY **Dual Socket** 16 1024 GB 2 U Server CX270 S2 ог Зх 3.5-inch in Node CX400 S2

Multi-Node Servers **PRIMFRGY**



Model	PRIMERGY CX250 S2	
Туре	1U / half wide dual socket Server Node for PRIMERGY CX400 S2 Multi-Node system	
Chipset	Intel® C600	
Mainboard type	D 3196	
Processor type support	Intel® Xeon® processor E5-2600 v2 product family	
Memory	16 GB - 1024 GB	
Memory protection	Advanced ECC, SDDC (only for registered DIMMs)	
Drive bays	6x2.5-inch or 3x3.5-inch in CX400 S2 depending on CX400 S2 chassis version (2.5 or 3.5-inch version)	
Storage disks	HDD SAS 2.5-inch, 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB HDD SAS 3.5-inch, 1 / 2 / 3 / 4 TB, HDD SATA 2.5-inch, 250 / 500 GB / 1 TB HDD SATA 3.5-inch, 500 GB / 1 / 2 / 3 TB SSD SAS 2.5-inch, 100 / 200 / 400 GB SSD SATA 2.5-inch, 100 / 200 / 400 GB	
Onboard or integrated cor	ntroller	
- SATA Controller - RAID Controller - LAN Controller - Remote Management	- Intel® C600, for up to 4/3x 2.5-/3.5 inch SATA HDD or SSD SW RAID 0/1 - RAID 0/1 for internal drives - 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration) - Baseboard management controller (BMC),	

Controller

IPMI 2.0 compatible

Operating system and Virtualization Software

Certified or supported
operating systems and
virtualization software

Microsoft® Windows Server® 2012 Standard, Datacenter Microsoft® Hyper-V Server 2012

Microsoft® Hyper-V™ Server 2008 R2 Standard, Datacenter, Enterprise Microsoft® Windows Server® 2008 R2 Standard Microsoft® Windows Server® 2008 R2 Standard Microsoft® Windows® Web Server 2008 R2

Microsoft® Windows HPC Server® 2008 R2 Suite VMware vSphere™ 5.1

Novell® SUSE Linux Enterprise Server 10, 11

Red Hat® Enterprise Linux 5, 6

Citrix® XenServer®

Warranty

Standard Warranty 3 years

Service Level On-site Service (depending on country)

Maintenance and Support Services - the perfect extension

Recommended Service

7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.

Multi-Node Servers PRIMERGY



Model	PRIMERGY CX270 S2
Туре	2U / half wide dual socket Server Node with GPGPU for PRIMERGY CX400 S2 Multi-Node server system
Chipset	Intel® C600
Mainboard type	D 3196
Processor type support	Intel® Xeon® processor E5-2600 v2 product family
Memory	16 GB - 1024 GB
Memory protection	Advanced ECC, SDDC (only for registered DIMMs)
Drive bays	4x2.5 inch or 3x3.5 inch in CX400 S2 depending on CX400 S2 chassis version (2.5 or 3.5-inch version)
Storage disks	HDD SAS 2.5-inch, 146 / 300 / 450 / 500 / 600 / 900 GB / 1 TB HDD SAS 3.5-inch, 1 / 2 / 3 / 4 TB, HDD SATA 2.5-inch, 250 / 500 GB / 1 TB HDD SATA 3.5-inch, 500 GB / 1 / 2 / 3 TB SSD SAS 2.5-inch, 100 / 200 / 400 GB SSD SATA 2.5-inch, 100 / 200 / 400 GB
Onboard or integrated co	ntroller
- SATA Controller - RAID Controller - LAN Controller - Remote Management Controller -GPU / Coprocessor / Graphics add on card	- Intel® C600, for up to 4/3x 2.5-/3.5-inch SATA HDD or SSD RAID 0/1 - RAID 0/1 for internal drives - 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration) - Baseboard management controller (BMC), IPMI 2.0 compatible - 1 x CPGPU NVIDIA Tesla K20 / K20X computing processor - 1 x Intel® Xeon Phi™ 3120P/ 5110P / 7120P, - 1 x NVIDIA GRID K1
Operating system and Vir	tualization Software
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2012 Standard, Datacenter Microsoft® Hyper-V Server 2012 Microsoft® Windows Server® 2008 R2 Standard, Datacenter, Enterprise Microsoft® Windows® Web Server 2008 R2 Microsoft® Windows HPC Server® 2008 R2 Suite VMware vSphere™ 5.1 Novell® SUSE Linux Enterprise Server 10, 11 Red Hat® Enterprise Linux 5, 6 Citrix® XenServer®
Warranty	
Standard Warranty	3 years
Service Level	On-site Service (depending on country)
Maintenance and Suppor	t Services - the perfect extension
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please

contact your local Fujitsu partner.

FUJITSU Data Warehouse Appliance

FUJITSU Integrated System SQL Server Data Warehouse Appliance

In times of ever-changing markets and increasing competition the need to make quick decisions is continues to grow. IT solutions that are specially tailored to meet this requirement are available in order to provide a solid basis for such decisions. These solutions help you to quickly make the right decisions on the basis of sound information. Data warehouse platforms are a fundamental building block for pro-active decision support. However, the design and implementation of new data warehouse environments often turns out to be complex and expensive. Exactly these problems are addressed with Fujitsu Integrated System SQL Server Data Warehouse Appliance.

The Fujitsu Data Warehouse Appliance is a pre-installed and pre-configured complete solution that enables companies to implement their own data warehouse environment quickly and simply. The appliance uses proven Microsoft SQL Server 2012 technologies and Windows Server 2012 as an operating system. The hardware platform used is a Fujitsu Server PRIMERGY RX300 S7 rack system, which is not only well known for its energy efficiency, but also for its leading price/performance ratio - especially with database scenarios. The excellent interaction of all components can also be seen in the certification of this Fujitsu solution by Microsoft within the Microsoft SQL Server 2012 Fast Track program. In conjunction with Microsoft's latest xVelocity in-memory technology and the cost-efficient SQL Server Data Warehouse appliance license, the Fujitsu offer provides a finely tuned and high-performance SQL Server Data Warehouse solution for up to 4TB at an outstanding price/performance ratio.

FUJITSU Data Warehouse Applicane, your fast track to in-depth business decisions with the following characteristics:

Main feature	Benefits
Complete SQL Server Data Warehouse installation with finely attuned components	Powerful basis for in-depth business decisions
Single order code (SKU)	Easy sourcing
Tested configuration	No implementation risk
Pre-configured, pre-installed configuration	Ready-to-work a few minutes after receipt
Special SQL Server Data Warehouse appliance	Reduce license costs by up to 50%

Appliance Hardware





Hardware	1 x FUJITSU PRIMERGY RX300 S7 2,5" Base unit incl. RMK
Processor type	1 x Intel® Xeon® processor E5-2643 4C/8T 3.30 GHz 10 MB
Memory	96 GB (4x16GB + 4x8GB)
LAN	4 x 1 Gb/s
Management	iRMC S3 advanced pack
Controller	RAID Ctrl SAS 6G 1GB + FBU option
Hard disk drive	16 x 2,5"-SAS-HDD, 600 GB, 10k
Power supply	2 x 450W (94 % efficiency, 80 PLUS platinum)

FUJITSU Cluster-in-a-box PRIMERGY

Cluster-in-a-box

Nowadays your IT is becoming more and more important. It supports and drives your business. Your IT enables you to comply with regulations, improves your business processes and allows you to respond faster to new demands. Maintaining the continuity of your services is fundamental to stay in business. Extended downtime would cause a direct and measurable impact on your business, as well as that of your partners and suppliers. We understand the importance of keeping IT operations running, and help you to prevent downtime: both, planned and unplanned downtime.

Fujitsu Cluster-in-a-box offers a well-balanced combination of server, storage, and networking components in one compact enclosure. With Fujitsu Cluster-in-a-box, customers receive a "small and entire configuration" including Microsoft Windows Server 2012 pre-installed and pre-configured as a high availability cluster. Two server nodes, shared storage, integrated network and redundant power supplies are pre-packaged and preconnected within a single box. Fujitsu Cluster-in-a-box is perfectly suited for organizations with experience in administration of Microsoft Windows Server, Just turn it on, spend a few minutes with our configuration wizard and you are ready to work. Designed for midmarket organizations and branch offices, Fujitsu Cluster-in-a-box offers continuous availability at low costs to protect important data and business-critical services.

To have the best fitting offering for your individual need, there are five different editions available.

Cluster-in-a-box					
	based on PRIMERGY BX400-L	based on PRIMERGY BX400-M	based on PRIMERGY BX400-S	based on PRIMERGY CX420-M	based on PRIMERGY CX420-S
Base Unit	2 x 10GbE Switch 2 x SAS ConBlade Floorstand kit	2 x 1GbE Switch 2 x SAS ConBlade	2 x 1GbE Switch 2 x SAS ConBlade	2 x SAS Expander	2 x SAS Expander
Cluster Nodes	PRIMERGY BX920 2 x Intel® Xeon® processor E5-2430 48GB DIMM	PRIMERGY BX920 2 x Intel® Xeon® processor E5-2430 48GB DIMM	PRIMERGY BX920 2 x Intel® Xeon® processor E5-2407 24GB DIMM	PRIMERGY CX272 2 x Intel® Xeon® processor E5-2630 48GB DIMM	PRIMERGY CX272 2 x Intel® Xeon® processor E5-2609 24GB DIMM
Storage	PRIMERGY SX980 10 x 900GB HDD SAS	PRIMERGY SX980 10 x 600GB HDD SAS	PRIMERGY SX980 6 x 450GB HDD SAS	8 x1TB HDD NL-SAS	4 x 1TB HDD NL-SAS
Optional Storage Expanision	up to 72 additional disk with ETERNUS JX40				tional disk with US JX40
Windows Server 2012	Datacenter	Datacenter	Standard	Datacenter	Standard
Intended usage	virtualized workloads	virtualized workloads	physical workloads	virtualized workloads	physical workloads

FUJITSU Cluster-in-a-box, your fast track to continuous operation with the following characteristics:

Key Features	Your Benefits
Integrated availability mechanisms with failover clustering and redundant hardware components	Business continuity with nearly no downtimes
Single order code (SKU)	Easy buying
Pre-configured, pre-installed configuration	Ready-to work a few minutes after receipt
Pre-tested configuration	No implementation risk
Optional server virtualization with Microsoft Hyper-V	Leverage the benefits of virtualization

Our offering based on our blade server PRIMERGY BX400 provides in addition to the key features of FUJITSU Cluster-in-a-box:

Key Features	Your Benefits	
Smart tower enclosure equipped with all necessary components of a datacenter: server, storage and network	Up to 70% less space than traditional servers All components are optimized to each other Reduced complexity and significantly reduced costs for cabling and deployment of network connections	
Fully-featured blade system	Easy scalability of server and storage resources to protect your investments	
One entire management of all components with Fujitsu ServerView	Easy management of your IT	
Purely based on industry standards	Seamless integration and interoperability with existing IT environments	

Our offering based on PRIMERGY CX420 provides in addition to the key features of FUJITSU Cluster-in-a-hox:

Cluster-in-a-box:	
Key Features	Your Benefits
One enclosure for two servers with shared power and cooling	Up to 50% less space than traditional servers All components are optimized to each other
Shared storage with up to 12 x 3.5" hot plug NL-SAS drives	Easy scalability of storage resources
No sharing of fabrics, I/O or management components	Lowered complexity vs. blade servers
Purely based on industry standards	Seamless integration and interoperability with existing IT environments

Attached Storage PRIMERGY



Model	PRIMERGY SX05 S1 USB	PRIMERGY SX05 S1 SAS
Туре	Server attached rack backup subs	system
Housing	Rack	
Number of bays	Two 5.25" half height	
Accessible drives	DDS Gen5, 3 MB/s, 36 GB, USB 2.0 DDS Gen6, 6 MB/s, 80 GB, USB 2.0 RDX Drive, 25 MB/s, 160/320/500 GB/1 TB USB 2.0	LTO3HH Ultrium, 60 MB/s, 400 GB, SAS 3GB/s LTO4HH Ultrium, 120 MB/s, 800 GB, SAS 6GB/s LTO5HH Ultrium, 140 MB/s, 1500 GB, SAS 6GB/s LTO6HH Ultrium, 160 MB/s, 2500 GB, SAS 6GB/s
Dimensions (WxDxH)	428.8 x 641.4 x 43.2 mm	
Height Unit Rack	1 U	
Weight	8.07 kg (depending on configura	ition without backup drives)
Special features	The PRIMERGY SX05 USB Storage Subsystems is an innovative, easy-to-use, flexible and economical rack enclosure for backup devices. With its wide range of supported backup devices with USB interfaces, it is best suited to consolidate data backups for rack-based servers in PRIMECENTER M1 and third-party racks.	The PRIMERGY SX05 SAS Storage Subsystems is an innovative, easy-to-use, flexible and economical rack enclosure for backup devices. With its wide range of supported backup devices with SAS interfaces, it is best suited to consolidate data backups for rack-based servers in PRIMECENTER M1 and third-party racks.

Racks PRIMECENTER M1



Model	PRIMECENTER M1 Rack, 16 U
Туре	16 U symmetrical design 600 mm with space optimized rack design
Design doors	One-piece front door and two-piece rear door with high percentage of holes (up to 80%) for improved server cooling. Ergonomic door handles.
Capacity	16 height units with up to 20 kg load per horizontal height unit, maximum weight up to 1000 kg.
Cable management and service	Optimized cable routing solutions. Cabling openings in the floor group and in the rear door.
Dimensions (WxDxH)	600 x 1050 x 847 mm
Transport Dimensions (WxDxH)	700×1200×1,075 mm (approx.)
Weight empty approx.	64 kg
Max. pay load/dynamic load	320 kg/1000 kg
Rack accessories	Optional available: rack mounting kits; cable management solutions; networking components, I/O switches, mounting kits, accessory kits, shelves, electrical connections, monitoring (rack console, KVM switches), uninterruptible power supply (UPS), power distribution units (PDU).
Security functions	Lockable front, rear door and side panels, optional anti-tilt protection.
Shipments	Optionally ex works, fully mounted and tested including cabling. Shipment including 4 heavy-duty castors and 4 adjusting feet on a shock-absorbing pallet.
Special features	The new 16 U symmetrical rack in widths of 600 mm is optimized for office environments. New rack doors in an attractive design with honeycomb shaped perforations also offer (up to 80% holes) optimal prerequisites for the cooling. The design of the PRIMECENTER M1 Racks ensures easy service and simple maintenance.



Model	PRIMECENTER M1 Rack, 24 U
Туре	24 U symmetrical design 600 mm with space optimized rack design, symmetrical design 700 mm with standard rack design or asymmetrical design 700 mm for patented lateral cable management
Design doors	One-piece front door and two-piece rear door with high percentage of holes (up to 80%) for improved server cooling. Ergonomic door handles.
Capacity	24 height units plus up to 4 vertical height units (depth of up to 300 mm incl. cable space). Up to 20 kg load per horizontal, 3.5 kg per vertical height unit, maximum weight up to 1000 kg.
Cable management and service	Optimized cable routing solutions for all symmetrical and asymmetrical rack types. Asymmetrical racks prepared for the patented lateral cable management. Cabling openings in the floor group and in the rear door.
Dimensions (WxDxH)	700 x 1050 x 1203 mm 600 x 1050 x 1203 mm
Transport Dimensions (WxDxH)	800×1200×1350 mm (approx.) 700×1200×1350 mm (approx.)
Weight empty approx.	82 - 89 kg
Max. pay load/dynamic load	480 kg/1000 kg
Rack accessories	Optional available: rack mounting kits; cable management solutions; networking components, I/O switches, mounting kits, accessory kits, shelves, electrical connections, monitoring (rack console, KVM switches), uninterruptible power supply (UPS), power distribution units (PDU)
Security functions	Lockable front, rear door and side panels, optional anti-tilt protection.
Shipments	Optionally ex works, fully mounted and tested including cabling. Shipment including 4 heavy-duty castors and 4 adjusting feet on a shock-absorbing pallet.
Special features	The optimized cable management patented by Fujitsu Technology Solutions is a major highlight in the asymmetrical PRIMECENTER M1 rack system. The asymmetrical rack structure with a section for side cable routing reduces the impairment to the air flow behind the rack devices. Guiding of the cables via swivel arms on the systems and within the cable conduit permits perfect routing of the cables, thus permits clean and clear cabling in the entire rack. The offer is supplemented by new symmetrical racks in widths of 600 mm and 700 mm. The symmetrical 700 mm racks also offer as a special feature up to 4 slots on the front for the installation of switches or the switch cabling in the rack. The asymmetric racks provide up to 6 vertical 19-inch slots on left front side and space for the patented sideways Fujitsu cable management in the rear. New rack doors in an attractive design with honeycombshaped perforations also offer (up to 80% holes) optimal prerequisites for the cooling of high-performance systems. The design of the PRIMECENTER M1 Racks ensures easy service and simple maintenance. Further features are the lockable front-, rear and side panels, the retractable anti-tilt protection and the optional factory installation with cabling and final tests.

Racks PRIMECENTER M1



Model	PRIMECENTER M1 Rack, 42 U
Туре	42 U symmetrical design 600 mm with space optimized rack design, symmetrical design 700 mm with standard rack design, asymmetrical design 700 mm for patented cable management
Design doors	One-piece front door and two-piece rear door with high percentage of holes (up to 80%) for improved server cooling. Ergonomic door handles.
Capacity	42 height units plus up to 6 vertical height units (depth of up to 300 mm incl. cable space). Up to 20 kg load per horizontal, 3.5 kg per vertical height unit, maximum weight up to 1000 kg.
Cable management and service	Optimized cable routing solutions for all symmetrical and asymmetrical rack types. Asymmetrical racks prepared for the patented lateral cable management. Cabling openings in the roof of the rack, in the floor group and in the rear door.
Dimensions (WxDxH)	700×1050×2003 mm 600×1050×2003 mm
Transport Dimensions (WxDxH)	800×1200×2150 mm (approx.) 700×1200×2150 mm (approx.)
Weight empty approx.	112 - 122 kg
Max. pay load/dynamic load	840 kg/1000 kg
Rack accessories	Optional available: rack mounting kits; cable management solutions; networking components, I/O switches, mounting kits, accessory kits, shelves, electrical connections, monitoring (rack console, KVM switches), uninterruptible power supply (UPS), power distribution units (PDU)
Security functions	Lockable front, rear door and side panels, optional anti-tilt protection.
Shipments	Optionally ex works, fully mounted and tested including cabling. Shipment including 4 heavy-duty castors and 4 adjusting feet on a shock-absorbing pallet.
Special features	The optimized cable management patented by Fujitsu Technology Solutions is a major highlight in the asymmetrical PRIMECENTER M1 rack system. The asymmetrical rack structure with a section for side cable routing reduces the impairment to the air flow behind the rack devices. Guiding of the cables via swivel arms on the systems and within the cable conduit permits perfect routing of the cables, thus permits clean and clear cabling in the entire rack. The offer is supplemented by new symmetrical racks in widths of 600 mm and 700 mm. The symmetrical 700 mm racks also offer as a special feature up to 4 slots on the front for the installation of switches or the switch cabling in the rack. The asymmetric racks provide up to 6 vertical 19-inch slots on left front side and space for the patented sideways Fujitsu cable management in the rear. New rack doors in an attractive design with honeycombshaped perforations also offer (up to 80% holes) optimal prerequisites for the cooling of high-performance systems. The design of the PRIMECENTER M1 Racks ensures easy service and simple maintenance. Further features are the lockable front-, rear and side panels, the retractable anti-tilt protection and the optional factory installation with cabling and final tests.

ServerView Suite PRIMERGY



DEPLOY Fast, easy, reliable

Server Setup Installation

- SV Installation ManagerSV Scripting Toolkit
- Mass Deployment

 □ SV Deployment Manager



CONTROL Centralized, easy, efficient

Server Monitoring and Control

- SV Operations ManagerSV Agents / CIM Providers
- SV Agents / CIM ProviderSV System Monitor
- SV Event ManagerSV RAID Manager

Capacity Management SV Threshold Manager

Power Management

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

Storage Support

- SV RAID Management
 - Monitoring
 - Events





DYNAMIZE Simple, sophisticated, efficient

Privat Claud Infrastructure

□ SV Resource Orchestrator Cloud Edition

Consolidated Server Infrastructures

□ SV Resource Orchestrator Virtual Edition

I/O Management

□ SV Virtual-IO Manager



MAINTAIN In any state, at any place

Remote Management

- integr. Remote Management Controller (iRMC) □ iRMC Advanced Pack
- SV Management Blade

Update Management

- SV Update Manager
- Update Manager Express ■ SV Úpdate DVD
- SV Download / Repository Mgr.

Performance Measurement

SV Performance Manager

Investigation

- SV Asset Management
- SV Archive Manager SV Inventory Manager
- SV PrimeCollect

Inspection

- SV Online Diagnostics
- SV Customer Self Service
 - □ Local Service Panel
 - □ Local Service Display



INTEGRATE Seamless, manage uniformly

Uniformed Management

- □ Fujitsu ManageÑow® solutions
- SV Integration Packs
- Microsoft SCOM
- Microsoft SCCM
- Microsoft SC VMM
- Microsoft SC PRO Packs
- VMware vCenter
- Nagios
- Icinga
- HP Operations Manager
- HP Systems Insight Manager
- Altiris Deployment Server
- CA Unicenter
- CA Spectrum ■ IBM Tivoli TEC
- IBM Tivoli NetView
- □ BMC Patrol

■ = Standard □ = Option

Key to higher value and efficient IT operation

Fujitsu ServerView® Suite provides all the necessary elements for professionally managing server systems across their lifecycle. All ServerView® products come from a single source, which understands data center structures and processes. This is particularly important for those customers aiming to benefit from latest virtualization and server technologies and thus improve the efficiency and flexibility of their IT.

Fujitsu ServerView® Suite delivers optimized deployment, permanent status monitoring and extensive control or analysis 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 enterprise management systems enables full investment protection.



Maximum Scalability with Minimum Downtime FUJTSU Server SPARC

Unmatched scalability and reliability in a modular system based on SPARC64 X

FUJITSU SPARC servers running Solaris are ideal for mission-critical applications requiring high performance, best-in-class availability, and unmatched scalability on all application tiers. SPARC servers include built-in virtualization, systems management, and security at no additional cost.

FUJITSU Server M10 Family

FUJITSU M10 servers are the result of a 20-year FUJITSU and Oracle partnership in the development of leading mission-critical computing. Fujitsu M10 servers, based on the 16-core SPARC64 X processor, deliver mainframe class reliability, availability and serviceability (RAS) adopted from 60 years of Fujitsu mainframe experience with maximum scalability for mission-critical workloads. Fujitsu M10 servers scale dynamically from 1 to 64 processors. The modular architecture allows customers to easily add resources in Building Blocks and, together with core-level CPU activation, meet changing workload requirements without planned or unplanned downtime for existing applications. 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, no-cost virtualization technologies via Oracle VM Server for SPARC and Oracle Solaris Zones.

Oracle SPARC M5 Server Family

Oracle's SPARC M5-32 server is a scalable symmetric multiprocessor (SMP) server delivering high levels of uptime. It is designed for business-critical enterprise workloads and for server consolidation. The SPARC M5-32 delivers high performance per processor core and extreme system throughput with up to 1,536 total processor threads and up to a staggering 32 TB of shared system memory in a 32-processor configuration. Combined with Oracle Solaris, the SPARC M5-32 server delivers high performance and reliability, availability, and serviceability with comprehensive virtualization capabilities offered in an enterprise-class server.

Oracle SPARC T5 Server Family

Designed for organizations and applications that require highest throughput per socket, the SPARC T5 server family from Oracle is the most advanced and scalable SPARC T-Series server ever. The SPARC T5 servers combined with Solaris delivers high levels of performance, reliability and built-in virtualization. Utilizing the SPARC T5 processor, the SPARC T5 servers are scalable up to 8 sockets, providing up to 128 compute cores and 4 TB of memory that is optimized for Oracle workloads and engineered systems.

FUJITSU M10

SPARC64 X based Servers



System	FUIITSU M10-1 Server
Form Factor	Rack server (1 U)
Processor quality	1x sixteen-core processor
Processor type	SPARC64 X (2.8 GHz, 22 MB L2 cache)
Main Memory	Max. 512 GB, 16 x DIMM (DDR3) slots
Storage drive bays	8x 2.5-inch
Hard disk drives	600 GB SAS 10.000 rpm HDD 100 GB SAS SSD 200 GB SAS SSD
PCI slots / I/O slots	3x PCIe 3.0 (x8) 23 PCIe slots in total incl. PCI expansion units
Number of I/O expansion unit	Max. 2x I/O expansion unit (max. 11 x PCI-Express 3.0 slots per unit)
I/O ports onboard	4xEthernet (10Base-T/100Base-TX/1000Base-T) 1xSAS (Serial attached SCSI) 2 x USB
Power supply configuration	2x hot-plug power supply (1 + 1 redundant)
Power consumption	Max. 763 W
Input voltage	100 - 120 VAC, 200 - 240 VAC
Dimension (W x D x H)	431 x 721 x 42.5 mm
Weight*	18 kg
Operating System	Oracle Solaris 10, Oracle Solaris 11.1
Redundant components	Memory, HDD/SSD, power supply unit, fan, power system, PCI card
Hot-swap components	HDD/SSD, power supply unit, fan
Virtualization	Oracle Solaris Zones Oracle VM Server for SPARC

^{*} The weight of cables and optional hardware is not included



FUJITSU M10-4 Server

Rack server (4 U)

Max. 4x sixteen-core processors

SPARC64 X (2.8 GHz, 24 MB L2 cache)

Max. 2 TB, 64x DIMM (DDR3) slots

8 x 2.5-inch

600 GB SAS 10.000 rpm HDD

100 GB SAS SSD

200 GB SAS SSD

11x PCle 3.0 (x8)

71 PCIe slots in total incl. PCI expansion units

Max. 6x I/O expansion units

Max. ox i/o expansion units

(max. 11 x PCI express 3.0 slots per unit)

4xEthernet (10Base-T/100Base-TX/1000Base-T)

1xSAS (Serial attached SCSI)

2 x USB

2x hot-plug power supply (1 + 1 redundant)

Max. 2765 W

200 - 240 VAC

440x746x175 mm

58 kg

Oracle Solaris 10,

Oracle Solaris 11.1

Memory, HDD/SSD, power supply unit, fan, power system, PCI card, liquid cooling pump

HDD/SSD, power supply unit, fan, PCI card,

PCI expansion unit

Oracle Solaris Zones

Oracle VM Server for SPARC

FUJITSU M10

SPARC64 X based Servers



System	FUJITSU M10-4S (Single unit)
Form Factor	Rack server (4 U)
Processor quantity	Max. 4 sixteen-core processors
Processor type	SPARC64 X (3.0 GHz, 24 MB L2 cache)
Main Memory	Max. 2 TB, 64 x DIMM (DDR3) slots
Storage drive bays	8 x 2.5-inch
Hard disk drives	600 GB SAS 10.000 rpm HDD 100 GB SAS SSD 200 GB SAS SSD
Optical drives	-
Tape drives	-
PCI slots / I/O slots	8x PCle 3.0 (x8) 58 PCle slots in total incl. PCl expansion units
Number of I/O expansion unit	Max. 5 x I/O expansion units (max. 11 x PCl express 3.0 slots per unit)
I/O ports onboard	4xEthernet (10Base-T/100Base-TX/1000Base-T) 1xSAS (Serial attached SCSI) 2x USB
Power supply configuration	2x hot-plug power supply (1 + 1 redundant)
Power consumtion	Max. 2,779 W
Input voltage	200 - 240 VAC
Dimensions (WxDxH)	440×810×175 mm
Weight *	60 kg
Operating System	Oracle Solaris 10 Oracle Solaris 11.1
Redundant components	Memory, HDD/SSD, power supply unit, fan, power system, PCI card, liqid cooling pump
Hot-swap components	HDD/SSD, power supply unit, fan, PCI card, PCI expansion unit
Virtualization	Oracle Solaris Zones Oracle VM Server for SPARC

^{*} The weight of cables and optional hardware is not included





FUJITSU M10-4S (8 units)	FUJITSU M10-4S (16 units)
8 rack servers in 1 rack cabinet	16 rack servers in 2 rack cabinet
Max. 32 sixteen-core processors	Max. 64 sixteen-core processors
SPARC64 X (3.0 GHz, 24 MB L2 cache)	SPARC64 X (3.0 GHz, 24 MB L2 cache)
Max. 16 TB, 512 x DIMM (DDR3) slots	Max. 32 TB, 1024 x DIMM (DDR3) slots
64x 2.5-inch	128 x 2.5-inch
600 GB SAS 10.000 rpm HDD 100 GB SAS SSD 200 GB SAS SSD	600 GB SAS 10.000 rpm HDD 100 GB SAS SSD 200 GB SAS SSD
-	-
-	-
64 x PCle 3.0 (x8) 464 PCle slots in total incl. PCl expansion units	128 x PCle 3.0 (x8) 928 PCle slots in total incl. PCl expansion units
Max. 40 x I/O expansion units (max. 11 x PCI express 3.0 slots per unit)	Max. 80 x I/O expansion units (max. 11 x PCI express 3.0 slots per unit)
32xEthernet (10Base-T / 100Base-TX / 1000Base-T) 8xSAS (Serial attached SCSI) 16 x USB	64xEthernet (10Base-T / 100Base-TX / 1000Base-T) 16xSAS (Serial attached SCSI) 32 x USB
16x hot-plug power supply (1 + 1 redundant)	32x hot-plug power supply (1 + 1 redundant)
Max. 23,586 W	Max. 47,972 W
200 - 240 VAC	200 - 240 VAC
700×1,050×2,000 mm	1400×1,050×2,000 mm
780 kg	1,570 kg
Oracle Solaris 10 Oracle Solaris 11.1	Oracle Solaris 10 Oracle Solaris 11.1
Memory, HDD/SSD, power supply unit, fan, power system, PCI card, liqid cooling pump	Memory, HDD/SSD, power supply unit, fan, power system, PCI card, liqid cooling pump, XSCF
HDD/SSD, power supply unit, fan, PCI card, PCI expansion unit	HDD/SSD, power supply unit, fan, PCI card, PCI expansion unit
Oracle Solaris Zones Oracle VM Server for SPARC Physical Partitioning	Oracle Solaris Zones Oracle VM Server for SPARC Physical Partitioning

Oracle

SPARC T5 / M5-32 Servers

System	SPARC M5-32 Server	SPARC T5-2 Server
Form Factor	Cabinet	Rack server (3 U)
Processor quantity	Max. 32 six-core	Max. 2 sixteen-core processor
Processor type	SPARC V9 (3.6 GHz, 48 compute threads)	SPARC T5 (3.6 GHz, 8 MB L3 cache)
Max. threads per system	1536	256
Main Memory	Max. 32 TB shared using 32 GB, 1066 MHz DDR3 DIMMs	Max. 1 TB 32 x DIMM (DDR3) slots
Hard disk drive / Solid state drive bays	Up to 32	Max. 6 x 2.5-inch
Hard disk drives / Solid state drives	600 GB (2.5-inch) SAS or 300 GB (2.5-inch) SSD	300 GB SAS 10000 rpm HDD 600 GB SAS 10000 rpm HDD 100 GB SATA SSD 300 GB SATA SSD
Optical drives		1 x DVD+/-R/W
I/O-Slots	64 PCIe 3.0 (x8 wired)	8 PCIe (x8)
I/O ports onboard	32 x Ethernet (100 Mbps/1 Gbps/10 Gbps) 2 x RJ45 console ports	4x Ethernet 10 GbE (100 Mbps /1 Gbps / 10 Gbps) 4x USB external (2x USB 3.0 rear, 2x USB 2.0 front) 1x USB 3.0 internal 1x VGA 1x RJ45 2x LSI SAS2008 8 port
Power supply configuration	12 hot-swappable power supply (6 + 6)	2x hot-plug AC redundant power supplies (1 + 1)
Power consumption	AC 7000 W	2060 W
Input voltage	200 - 240 VAC, 380 - 415 VAC, 480 VAC	200 VAC
Dimension (WxDxH) in mm	904 x 1451 x 2000 mm	436.5 x 732 x 129.85 mm
Weight	approx. 1677 kg	Approx. 36.28 kg (80 lbs.)
Operating System	Oracle Solaris 10, Oracle Solaris 11.1	Oracle Solaris 10 1/13 Oracle Solaris 11.1
Redundant components	HDDs, PCle cards, power supplies, fans	Power supply unit, fans
Hot-swap components	power supplies, fans	HDDs/SSDs, power supply unit, fan
Virtualization	Oracle Solaris Zones Oracle VM Server for SPARC Dynamic	Oracle Solaris Zones Oracle VM Server for SPARC

SPARC T5-4 Server	SPARC T5-8 Server
Rack server (5 U)	Rack server (8 U)
Max. 4 sixteen-core processors	Max. 8 sixteen-core processors
SPARC T5 (3.6 GHz, 8 MB L3 cache)	SPARC T5 (3.6 GHz, 8 MB L3 cache)
512	1024
Max. 2 TB 64x DIMM (DDR3) slots	Up to 4 TB 128x DIMM (DDR3) slots
8 x 2.5-inch	8 x 2.5-inch
300 GB SAS 10000 rpm HDD 600 GB SAS 10000 rpm HDD 100 GB SATA SSD 300 GB SATA SSD	300 GB SAS 10000 rpm HDD 600 GB SAS 10000 rpm HDD 100 GB SATA SSD 300 GB SATA SSD
DVD+/-R/W via rKVMS	DVD-RW via rKVMS
16 PCIe 3.0 (x8)	16 PCIe 3.0 (x8)
4 x Ethernet 10 GbE (100 Mbps / 1 Gbps / 10 Gbps) 4 x USB 3.0 external (2 rear, 2 front) 1 x USB 2.0 internal 1 x VGA 1 x RJ45 2 x LSI SAS2008 8 port	4 x Ethernet 10 GbE (100 Mbps / 1 Gbps / 10 Gbps) 4 x USB 3.0 external (2 rear, 2 fornt) 1 x USB 2.0 internal 1 x VGA 1 x RJ45 2 x LSI SAS2008 8 port
2x hot-plug AC redundant power supplies (1 + 1)	4x hot-plug AC redundant power supplies (2 + 2)
3000 W	3000 W
200 - 240 VAC	200 - 240 VAC
445 x 800 x 215 mm	445 x 800 x 350 mm
Approx. 75.4 kg (166 lbs.)	Approx. 118.6 kg (261.5 lbs.)
Oracle Solaris 10 1/13 Oracle Solaris 11.1	Oracle Solaris 10 1/13 Oracle Solaris 11.1
Power supply unit, fans	Power supply unit, fan
HDDs/SSDs, power supply unit, fan, PCIe cards	HDDs/SSDs, power supply unit, fan, PCIe cards
Oracle Solaris Zones Oracle VM Server for SPARC	Oracle Solaris Zones Oracle VM Server for SPARC



Mission Critical Open System PRIMEQUEST

Open Systems Environments

The PQ1800 E2 is the best-suited UNIX to Linux® and Microsoft® Windows Server® migration platform.

When it's time to move your most important UNIX Enterprise mission critical applications to the more cost effective profile of open platforms, a x86 platform designed to support mission critical high-availability features is required to bridge to the open standard world. Combining cost-effectiveness with a no-compromise system design fulfills best of both worlds' intrinsic product features according to data center demands.

An architecture – that actively ensures service stability and availability – PRIMEQUEST delivers Windows® and Linux® running in parallel in different partitions that is head and shoulders above other commodity server offerings. PRIMEQUEST integrates the robust performance of Intel® Xeon® processor E7 88xx series, Linux® and Microsoft® Windows Server® with Fujitsu's design process in high RAS technology. The resulting performance scalability coupled with both hardware and software based partitioning capability raises the standard in both resource use efficiency and error management & isolation.

For new applications or cloud business, the availability and support of major virtualization software and applications will ensure PRIMEQUEST sits at the forefront of migration and consolidation projects.

Eco-friendliness

Fujitsu server PRIMEQUEST is an Eco friendly server, based on the Fujitsu group's strict green product assessment regulations. In fact the power and cooling efficiency is approved and certified on "80 PLUS GOLD". Further, in-built management boards provide power unit status and consumption visualization for even higher levels of resource use management.

Reliability and Availability

Continuous operation is supported by comprehensive component redundancy that even extends to full memory mirroring. PRIMEQUEST uses innovative flexible IO functions to ensure partitions and virtual systems can be created and reconfigured in a virtually unrestricted combination of system components. Even if problems occur on a system board, PRIMEQUEST flexibility enables applications running in the affected area to be automatically and quickly reconfigured on a reserved system board.

Performance, Scalability

PRIMEQUEST can configure large SMP systems using a maximum of 8 CPUs (up to 80 cores) and up to 4 terabyte of main memory. This fully supports business growth as well as enables the very high speed operation required by large corporate databases and online trading systems.

Mission Critical Servers PRIMEQUEST



Model	PRIMEQUEST 1800E2
Form Factor	12U
Processor quantity and type	1 - 8 Intel® Xeon® E7-8800 product family
Processor options	Intel® Xeon® processor E7-8830 (2.13 GHz, 8 cores) Intel® Xeon® processor E7-8870 (2.4 GHz, 10 cores)
Memory	8 GB - 4 TB DIMM (DDR3) Note: Maximum memory capacity varies by operating system
Memory slots	128 slots
Memory protection	Replay on CRC error; Scalable Memory Interconnect (SMI) Lane Failover; SMI Clock Failover; ECC; Extended ECC; Memory Patrol; Memory Mirroring
Hard disk bay configuation	Max. 16 x 2.5-inch for SAS
Hard disk drive	147 / 300 GB 2.5-inch 15000 rpm 300 / 600 / 900 GB 2.5-inch 10000 rpm 400 GB SSD 785 GB / 1.2 TB PCIe SSD
Optical drive	1 x CD-ROM / DVD-ROM
Networking	16x1 Gbit/s Ethernet (1000Base-T) ports, 10Gbps via PCI HBA
Interfaces	8 x USB 2.0
PCI Express	16xPCI-Express (x8, full-height, short) Expandable to 40 slots when using External PCI boxes
Redundant components	Memory (memory mirroring), HDD (RAID 0/1/1E/5/6/10), Power Supply Unit (option), PCI card (option), Fan, System Board (Reserved System Board), Management Board (option), Power Supply to server (option)
Hot-swap components	HDD, Power Supply Units (option), FAN, PCI-cards, DVD-RW drive, Management Boards (option)
RAS features	Harware Partitioning, flexible 10, Quick Path Interconnect: Data transferred between system boards protected by system interface error detection, re-transmission and degradation. Cable-less Design in chassis: Removes cabling errors, cabling work and cable problems when changing partition configurations. PGI Express Advanced Error Reporting
Server Management	ServerView Suite ServerView Resource orchestrator (option)
Weight	150 kg (330 lb.)
Rack-mount (WxDxH)	482×800×530 mm, 12 U
Noise emission	59 dB
Rated operating range	200 - 240 VAC ±10%, 50/60 Hz +2%, -4%
Active power max.	Max. 4000 W
Stand-by power	95 W
Operating System	Microsoft® Windows Server® /2008 R2 Microsoft® Windows Server® 2012 Red Hat® Enterprise Linux® 5.6, 5.7, 5.8, 6.0, 6.1, 6.2 and 6.3 SUSE® LINUX Enterprise Server 11 SP2 VMware ESX 4.1, ESXi 5.0 U1 Oracle VM 3.0 Note: Supported OS will vary with the configuration.
Warranty	
Standard Warranty	3 Years
Service level	Service level On-site Service (depending on country)
Maintenance and Support Servi	ces - the perfect extension
Recommended Service	7x24, Onsite Response Time: 4 h
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)



BS2000/OSD™ Server Portfolio Business Continuity in a Flexible Way

Combining reliability with flexibility

Innovative mainframe servers for mission critical enterprise computing

The BS2000/OSD Business Servers are the backbone of modern data centers. These innovative mainframe systems provide a secure, reliable computing environment for the simultaneous running of various ERP applications, both for small to medium-sized customers as well as for centralized applications of major customers with several thousand users.

The BS2000/OSD Business Servers are equipped to meet any challenges a company may face: from the fully automatic processing and administration of even the largest data volumes right through to the provision of a secure basis for e-business transaction solutions.

These servers combine outstanding performance with the flexibility of modern data center solutions. They are designed in such a way that they can grow to meet new requirements at any time. With their help companies can react quickly and flexibly when they increase performance, master new consolidation challenges, and at the same time ensure stable operation at all times. Each server family has all the known and proven strengths of the open mainframe operating system BS2000/OSD at its disposal: maximum availability, automated operation and ease of administration.

Investment security

Invest in the future with experience and vision

The challenges that company data centers face worldwide have resulted in the evolutionary development of the BS2000/OSD. Fujitsu Technology Solutions offers companies the necessary investment security and secure IT platforms that make their operations more efficient. Today BS2000/OSD is the personification of the dynamic data center.

With BS2000/OSD users acquire an IT infrastructure that provides business processes with the necessary flexibility, efficiency and availability.

S175 and S210 Business Servers:

- High-end mainframes with state-of-the-art innovative technology
- High stability, scalability and performance for databases and applications
- Outstanding energy efficiency and little required space with at the same time maximum user numbers and changing workloads

SQ210 Business Servers:

- Innovative mainframe-platform for BS2000/OSD, Linux and Windows applications based on state-of-the-art INTEL XEON MP™ technology
- Powerful BS2000/OSD mainframe for entry-level and medium-range performance
- Investment protection through object-compatible functionality of all BS2000/OSD applications
- Business Server with improved BS2000/OSD performance, now supporting up to 16 BS2000 processors
- Optional Application Units (AU's) for x86 applications, now supporting Linux, Windows and virtualization with VMware
- Extended High Availability (HA) features, including LiveMigration (LM)



Business Servers BS2000/OSD



Model	SQ210 Business Server
Operating System	BS2000/OSD V9.0 (OSD/XC V9.0) or higher (Linux, Windows)
Processor type	Intel® Xeon® E7
Number of BS2000/OSD-processors	1 – 16 cores
Number of Linux-, Windows- processors	0 – 23 cores (for Linux, Windows)
Application units	Optional 1 to 4 for Linux and Windows applications
Performance	12 – 1.750 RPF up to 16 models
Main memory	16 – 512 GB (guest systems max. 352 GB)
PCI slots for Fibre Channel, SCSI or LAN connectors	Max. 10 PCIe-controller (8 x arbitrary)
I/O processor	4 – 8 cores for X2000
I/O interfaces	Fibre Channel Ethernet SAS
Base rack	Server Unit with - CPU and I/O processor - Memory modules - PCIe controllers Management console, TFT Display LTO drive
Global storage	-





S175 Business Servers	S210 Business Servers
BS2000/OSD V7.0 or higher	BS2000/OSD V7.0 or higher
CMOS in / 390 architecture	CMOS in / 390 architecture
1 – 3 1 hot spare CPU	2 – 15 1 hot spare CPU
-	-
-	
170 – 1.040 RPF With 9 models	990 – 5.000 RPF With 10 models
Up to 64 GB	Up to 256 GB
-	-
1 – 2 for 128 channels Type 2, type S, type FC (Fibre Channel)	2 – 8 for 256 channels Type 2, type S, type FC (Fibre Channel)
0 – 60 channels type 2 8 – 128 channels type S 0 – 16 channels type FC	0 – 60 channels type 2 8 – 256 channels type S 0 – 64 channels type FC
- CPU, spare CPU and I/O processor, Main storage, System control - I/O unit for 96 channels - Service control processor (SVP) - Power Control Interface (PCI)	- CPU, spare CPU and I/O processor, Main storage, System control - I/O unit for 256 channels - Service control processor (SVP) - Power Control Interface (PCI)
2 - 64 GB	2 - 128 GB



Business-centric Storage ETERNUS DX Disk Storage Series

ETERNUS DX – Business-centric Storage

The Fujitsu Storage ETERNUS DX disk storage series is business-centric in many ways. It supports superior storage consolidation with an all-in-one approach that also covers unified connectivity. The ETERNUS DX performance architecture is ideal for applications requiring fast response times – even transactional and analytical tasks can be processed in parallel. The seamless family concept, ranging from entry-level to the high-end segment, includes one single management suite for all systems, enabling customers to balance and prioritize their system resources to satisfy user or application requirements and achieve optimized business continuity. The systems also deliver automated and affordable Quality of Service management. The deep integration into hypervisor technologies makes ETERNUS DX the perfect system for virtualization scenarios, ensuring high VM density and faster ROI. The benefits of ETERNUS DX have an immediate impact on business IT environments.

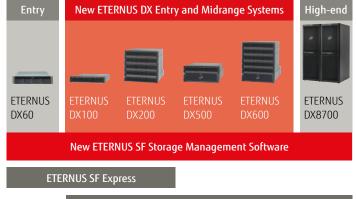
The ETERNUS SF storage management software is the uniform management solution for the entire ETERNUS DX series. All essential operations for storage resource management, monitoring, reporting, tiered storage, performance management, disaster resilience and business continuity are integrated.

ETERNUS SF at a glance:

- 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
- Hardware investment optimization through automated storage tiering
- Reduced storage system power consumption
- Central management for local and remote replication
- Automated Quality-of-Service management

ETERNUS Snapshot Manager - Efficient Snapshot Management

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.



Fujitsu Storage Solutions

Disk Storage Systems ETERNUS DX



Model	ETERNUS DX60 S2
Туре	Disk storage system for small and medium-sized businesses
Maximum capacity	96 TB
Controller	1 or 2 controllers
Max. cache capacity	1 GB/2 GB
Max. disk drives	24
Drive type	Nearline SAS, SAS
Interfaces	4 Gbit/s Fibre Channel or 1 Gbit/s iSCSI or 3 Gbit/s SAS

Redundancies	RAID controller, fans and power supplies that are hot swappable
Server platform	Windows Server, Solaris, RedHat Enterprise Linux Server & Advanced Platform, HP-UX, IBM AIX, VMware vSphere & VMware Infrastructure, Citrix XenServer
Snapshots/Clones	Build-in 8, upgradeable to max. 512
Remote replication	-
19" rackmount	Yes
Dimensions (WxDxH)	3.5 inch/8.8 cm (2 U) 19 inch/48.3 cm 25.6 inch/65 cm (per shelf)
Weight	35 kg per single enclosure
Management protocols	SNMP, SMI-S
Storage management software	ETERNUS SF Express (bundled) ETERNUS SF

Maintenance and Support Services – the perfect extension

Recommended Service	7x24, Onsite Response Time: 4 h – For locations outside of EMEA
	please contact your local Fujitsu partner.





ETERNUS DX100 S3	ETERNUS DX200 S3
Unified disk storage system for small and medium-sized businesses	
528 TB	1,008 TB
Block: 1 or 2 controllers / Unified: 2 controllers	
4 GB – 8 GB (Block) 8 GB – 16 GB (Unified)	8 GB – 16 GB (Block) 16 GB – 32 GB (Unified)
120	120 (3.5"); 240 (2.5")

Nearline SAS, SAS, MLC SSD, SLC SSD

Block protocols: up to 16 Gbit/s FC 10 Gbit/s FCoE 1 Gbit/s , 10 Gbit/s iSCSI 6 Gbit/s* , 12 Gbit/s* SAS

56 Gbit/s InfiniBand*

File protocols: 1Gbit/s, 10Gbit/s Ethernet

*) available 2014

RAID controller, fans and power supplies that are hot swappable

Windows Server, Solaris, RedHat Enterprise Linux Server & Advanced Platform, HP-UX, IBM AIX, VMware vSphere & VMware Infrastructure, Citrix XenServer

	Build-in 8, upgradeable to max. 2048
No	Yes
Yes	

SNMP, SMI-S

ETERNUS SF Express (bundled) ETERNUS SF ETERNUS Snapshot Manager

Maintenance and Support Services – the perfect extension

7 x 24, Onsite Response Time: 4 h - For locations outside of EMEA please contact your local Fujitsu partner.

Disk Storage Systems ETERNUS DX





Model	ETERNUS DX500 S3	ETERNUS DX600 S3
Туре	Unified disk storage system for mid-range enterprises	
Maximum capacity	1,920 TB	3,840 TB
Controller	2 controllers	
Max. cache capacity	16 GB - 64 GB (Block) 32 GB - 96 GB (Unified)	32 GB - 128 GB (Block) 64 GB - 192 GB (Unified)
Max. disk drives	240 (3.5"); 480 (2.5")	480 (3.5"); 960 (2.5")
Drive type	Nearline SAS, SAS, MLC SSD, SLC SSD	
Interfaces	Block protocols: up to 16 Gbit/s FC 10 Gbit/s FCoE 1 Gbit/s , 10 Gbit/s iSCSI 56 Gbit/s InfiniBand* File protocols: 1Gbit/s, 10Gbit/s Ethernet *) available 2014	
Redundancies	RAID controller, fans and power s	supplies that are hot swappable
Server platform	Windows Server, Solaris, RedHat Advanced Platform, HP-UX, IBM Infrastructure, Citrix XenServer	
Snapshots/Clones	8192	
Remote replication	Yes	
19" rackmount	Yes	
Management protocols	SNMP, SMI-S	
Storage management software	ETERNUS SF ETERNUS Snapshot Manager	

Maintenance and Support Services - the perfect extension

Recommended Service	7 x 24, Onsite Response Time: 4 h – For locations outside of EMEA	
	please contact your local Fuiltsu partner.	



ETERNUS DX8700 S2

High End Disk storage system for large enterprises

6,144 TB

2/4/6/8 controllers

1,152 GB

1,536 (3.5"); 3,072 (2.5")

Nearline SAS, SAS, SSD

16 Gbit/s Fibre Channel 10 Gbit/s FCoE

1 Gbit/s iSCSI 10 Gbit/s iSCSI

RAID controller, fans and power supplies that are hot swappable

Windows Server, Solaris, RedHat Enterprise Linux Server & Advanced Platform, HP-UX, IBM AIX, VMware vSphere & VMware Infrastructure, Citrix XenServer

32768

Yes

Yes

SNMP, SMI-S

ETERNUS SF

ETERNUS Snapshot Manager

 $7\,x\,24,$ Onsite Response Time: $4\,h$ – For locations outside of EMEA please contact your local Fujitsu partner.

Disk Storage Systems ETERNUS JX40



Model	ETERNUS JX40
Туре	Passive direct server attached drive extension
Maximum capacity	36 TB
Max. cache capacity	N/A
Hard disks	1 – 72 SAS and SATA mixable in up to 3 shelves
Management protocols	N/A
RAID type	N/A (determined by Host Raid Controller)
Maximum capacity in RAID 5	N/A
Interfaces	SAS 6 Gbit/s
Hard disk type	SAS, 15000 rpm, 2.5-inch: 73 GB, 146 GB SAS, 10000 rpm, 2.5-inch: 146 GB, 300 GB SATA, 7200 rpm, 2.5-inch: 500 GB
Redundancies	Fans and hot swappable power supplies
Server platform	Independent – SAS connection is prerequisite
19" rackmount	Yes
Dimensions (HxWxD)	3.5 inch/88 mm (2 U) 19 inch/483 mm 26 inch/650 mm (per shelf)
Weight	Max. 100.5 kg (w. 33.5 kg per single enclosure)
Optional extras	PRIMERGY ServerView® Suite Integration PRIMERGY DuplexDataManager®
Maintenance and Support Serv	rices – the perfect extension
Decemberded Comics	727 O:t- D T: / b

manifectionee and Support Servi	the period extension
Recommended Service	7x24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.
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Disk Storage Systems CELVIN NAS Server



Model	CELVIN NAS Server QR802	CELVIN NAS Server Q902
Туре	Hotswappable 4-bay system	Hotswappable 6-bay system
Hard disk capacity	Up to 4 x 2.5-inch or 3.5-inch SATA I/II/ SATA 6 GB/sHDD	Up to 6 x 2.5-inch or 3.5-inch SATA I/II/ SATA 6 GB/sHDD
Max. Device Capacity	12 TB	18 TB
Data Interface	Ethernet / USB 2.0 / USB 3.0 / eSATA	Ethernet / USB 2.0 / USB 3.0 / eSATA
LCD-Displays Instant Setup	no	yes
Virtualization and Clustering	yes	yes
iSCSI Target / Initiator	yes	yes
VMWare / Citrix / HyperV	yes	yes
Thin Provisioning	yes	yes
VPN (SSL)	yes	yes
User Authentication Windows Active Directory Service / LDAP Radius Server	yes	yes
Failover / Load Balancing	yes	yes
Raid Level	0/1/5/5+HS/6/10/JBOD	0/1/5/5+HS/6/6+HS/10/10+HS/ JBOD
One-button back up + Client back up software	yes	yes
Remote Replication	yes	yes
LUN Backup and One-time Snapshot	yes	yes
FTP, File Server and WEB Server	yes	yes
Printer Server	yes	yes
SQL Server	yes	yes
Remote Access and System Management	yes	yes
Download Station / Multimedia Server	yes	yes
Order code prefix: \$26341-F103	L890 without Hard Disk L891 4 x 1 TB L892 4 x 2 TB L894 4 x 3 TB	L902 without Hard Disk L962 6 x 2 TB L963 6 x 3 TB L943 4 x 3 TB L982 6 x 2 TB International L983 6 x 3 TB International

Disk Storage Systems CELVIN NAS Server





Model	CELVIN NAS Server Q802	CELVIN NAS Server Q703
Туре	Hot swappable 4-bay system	Hot swappable 2-bay system
Hard disk capacity	Up to 4 x 2.5-inch or 3.5-inch SATA I/II/ SATA 6 GB/sHDD	Up to 2 x 3.5" SATA I/II HDD
Max. Device Capacity	12 TB	6 TB
Data Interface	Ethernet / USB 2.0 / USB 3.0 / eSATA	Ethernet / USB 2.0 / USB 3.0 / eSATA
LCD-Displays Instant Setup	yes	=
Virtualization and Clustering	yes	yes
iSCSI Target / Initiator	yes	yes
VMWare / Citrix / HyperV	yes	yes
Thin Provisioning	yes	=
VPN (SSL)	yes	yes
User Authentication Windows Active Directory Service / LDAP Radius Server	yes	yes
Failover / Load Balancing	yes	=
Raid Level	0/1/5/5+HS/6/10/JBOD	0/1/JB0D/linear
One-button back up + Client back up software	yes	yes
Remote Replication	yes	yes
LUN Backup and One-time Snapshot	yes	yes
FTP, File Server and WEB Server	yes	yes
Printer Server	yes	yes
SQL Server	yes	yes
Remote Access and System Management	yes	yes
Download Station / Multimedia Server	yes	yes
Order code prefix: S26341-F103	L802 without Hard Disk L861 4 x 1 TB L862 4 x 2 TB L863 4 x 3 TB L823 2 x 3 TB L823 2 x 3 TB	L101 2 x 500 GBL102 2 x 1 TBL104 2 x 2 TBL109 2 x 1 TB INTL170 without HDDL171 without HDD INTL703 without Hard DiskL713 2 x 1 TBL723 2 x 2 TBL733 2 x 3 TBL733 without Hard Disk INTL773 2 x 2 TB INT





Model	Violin Memory 6212/6222/6232	Violin Memory 6606/6616/6611
Туре	All-Flash Array (Multi Level Cell)	All-Flash Array (Single Level Cell)
Host Interfaces	8 x 10 (8 x 40 Gb/s G	Fibre Channel GbE iSCSI IDR Infiniband Gen2 x8
Raw Capacity	13.2 TB/24.2 TB/35.2 TB	6.6 TB/12.1 TB/17.6 TB
Maximum Sustained 4 KB IOPS	200,000/350,000/500,000	400,000/800,000/1,000,000
Nominal Latency	under 500 µsec	under 250 µsec
Reliability/Resiliency	System Level Har 4 vRAID Cont 2 Array Cont 2 Memor	rdware Configuration dware Based vRAID roller Modules roller Modules y Gateways ilover & Failback
Storage Management Interfaces	Web GUI/CLI/SNMI	P/XML API/iPad App
Dimensions (HxWxD)	17.5″/	RU 420 mm 00 mm
Weight	34.5/40.4 kg	34.5/40.4 kg
Maintenance and Support S	ervices – the perfect extension	
Recommended Service	7x24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.	7 x 24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.



Reliable Tape Solutions ETERNUS LT Tape Storage Systems

Improving Your Backup – Reviving the Archive

Storage Solutions You can simply Rely on

We offer some of the most powerful tape systems on the market, with the performance and reliability expected of professional, enterprise-class systems. There are solutions for every need – robust libraries for small and medium-sized businesses and high-performance, scalable libraries that offer no-compromise on backup and long-term protection of business data. Each system is engineered for speed, durability and low lifetime costs per gigabyte.

Tape Systems for any Need

The range of our tape systems includes desktop devices for standard requirements and rack-compatible autoloading solutions for handling large backup volumes.

ETERNUS LT

Reliable Tape Solution

The ETERNUS LT tape storage systems are based on the latest LTO-6 technology, which unites large capacities, high speed and very low media costs. The drives are offered with FC and SAS interfaces, full-height as well as half-height size. ETERNUS LT is designed for high investment protection leveraging the existing drives in preparation for an upgrade to a larger system. You can choose from the following systems to address your individual needs:

The ETERNUS LT20 is a compact and extremely reliable tape library for small businesses and branch offices. It enables a cost-effective introduc-

tion to tape automation. The system occupies just one height unit, can accommodate up to eight cartridges and offers one drive with either SAS or FC interface.

The ETERNUS LT40 with two height units and 24 cartridge slots is a very compact tape storage system for small and midrange sized businesses. It can be equipped with maximum two LTO drives.

»Using the ETERNUS LT40 for our backup has also proven to be a real time saver, as this is now all done automatically.« Karl Sattlecker, Head of IT Organization and Process Management, Hargassner GmbH

The ETERNUS LT60 doubles the ETERNUS LT40. It offers a maximum of 48 cartridge slots and up to four LT0 drives on four height units. For both libraries additional slots can be upgraded very easily with a software license key. When using more than one drive they also support partitioning for independent use by two different applications as well as media cloning which is needed for storing data at one or more secure locations.

→ www.fujitsu.com/fts/eternus_lt

»Recent Gartner survey data shows that tape is still in use for 78% of all enterprise backups«

»Tape is still the most portable media for data protection, and, in some cases, it's still the best way to ensure availability of a copy of data in a remote location. Tape has a lower total cost of ownership (TCO) than disk as well.«

Gather - Evolving Best Practices for Backup, Archiving and Tape - 06/2011

Gartner – Evolving Best Practices h	or Backup, Archiving and	Tape – 06/2011
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Key Features	Benefits
Based on latest LTO technology	Significant improvements in capacity and performanceStandardized and widely used
Remote management utility and user friendly operator panel	 Easy administration, enables configuration and diagnostic Automatism help to decrease the error rate of backup processes Ethernet network for firmware upgrades, statistics
HH drives also with Fibre Channel interface available	 Future-proof, fault-tolerant, robust High data throughput Less expensive than full height drives

Tape Storage Systems ETERNUS LT





Model	LTO Desktop Drive	ETERNUS LT20 S2
Drive Type	LTO-4 Half Height LTO-5 Half Height LTO-6 Half Height	LTO-4/LTO-5/LTO-6 HH
Max. Capacity (native)	LTO-4: 800 GB LTO-5: 1.5 TB LTO-6: 2.5 TB	6.4/12/20 TB
Max. Cartridges	1	8
Max. Drives	1	1
Interface	SAS	SAS, FC
Description	The LTO Desktop Drive from Fujitsu is an entry-level component into the tape backup. The performance, capacity and reliability of the LTO desktop drive meet current and future requirements. Native encryption and WORM capability offer customers the security features needed for compliance and privacy initiatives. Thanks to backwards compatibility the LTO technology offers a very high investment protection. For customers still using older tape technology will offer a significant return on investment opportunity.	ETERNUS LT20 S2 from Fujitsu is a compact and extremely reliable tape library for small and midsized companies. The library is based on proven LT0 technology, which provides large capacity, high speed and very small media costs.

Maintenance and Support Services – the perfect extension

Recommended Service

 $7\,x\,24,$ Onsite Response Time: $4\,h$ – For locations outside of EMEA please contact your local Fujitsu partner.





ETERNUS LT40 S2

ETERNUS LT60 S2

LTO-4 HH/LTO-5 HH or FH/LTO-6 HH

19.2/36/60 TB	38.4/72/120 TB
19.2730700 16	30.4772712016
24	48
2	4
CAC FC	

SAS, FC

ETERNUS LT40 S2 from Fujitsu is a highly reliable and scalable tape library that is optimized to dramatically reduce the risk of manual errors in remote backups. It is an ultra compact tape library with up to 24 media slots and up to two drives on two height units.

ETERNUS LT60 S2 from Fujitsu is a highly reliable and scalable tape library that is optimized to dramatically reduce the risk of manual errors in remote backups. It is an ultra compact tape library with up to 48 media slots and up to four drives on four height units.

7 x 24, Onsite Response Time: 4 h – For locations outside of EMEA please contact your local Fujitsu partner.



ETERNUS CS Data Protection Appliances

Data protection appliances for Dynamic infrastructures

The ETERNUS CS storage solutions offer an outstanding data protection for dynamic infrastructures. ETERNUS CS minimizes backup times and fulfills all recovery time objectives for each business critical environment.

By aligning tape, disk and advanced deduplication technology into a suitable ILM (Information Lifecycle Management) strategy, enterprise data protection can be flexibly aligned to different SLAs.

ETERNUS CS enables the consolidation of storage devices for data protection thus simplifying your company's administration, saving energy and lowering the total cost of storage, while making efficient use of the most cost-effective technologies.

ETERNUS CS800

Fujitsu ETERNUS CS800 drastically enhances the efficiency of protecting your enterprise data safely from a CAPEX and OPEX point of view. It integrates disk performance, most advanced deduplication and replication technology in an easy to use appliance for optimized backup to disks. ETERNUS CS800 is the ideal solution to benefit from disk performance while ensuring investment protection through the Path-To-Tape option, which further optimizes disk utilisation when being used for long-term backups. ETERNUS CS800 is easier to use and shows better results compared with pure software products and standard disk systems. The support of industryleading backup software allows a fast integration into existing environments.

ETERNUS CS8000 Series

Fujitsu Storage ETERNUS CS8000 series is a unified data protection appliance allowing business defined backup and archiving. It radically simplifies data protection in heterogeneous IT environments, allows consolidating backup systems on a large scale, integrates compliant archiving within the same appliance and offers an easy way to introduce disaster resilience. As an integrated appliance it centrally manages backup and restore of data from mainframes, UNIX and x86 systems combining the best of disks and tape in a uniform and integrated way.



ETERNUS CS8000 series shortens backup windows to a minimum

with a performance of up to more than 130 TB/h and fulfills all recovery time objectives and retention period demands for each business critical environment. Thus making backup and archiving fit for ILM (Information Lifecycle Management). Enterprise data protection can be flexibly aligned at different service level agreements and compliance regulations.

ETERNUS CS8000 series offers superior VTL and NAS connectivity for True Tape Virtualization and File Archiving. The comprehensive support for the widest range of mainframes, open systems, NAS devices and industry-leading backup applications guarantees a seamless operational integration. Such consolidated data centers simplify companies' administration efforts and lowers the total cost of storage through enabling efficient use of the most cost effective storage technologies. Advanced deduplication and compression technologies further minimize capacity requirements and increase energy efficiency.

The powerful Grid Architecture features unmatched scalability, automatic continuation and long distance replication such leveraging unmatched disaster resiliency for protection against site outages. Its high level of redundancy is also the basis for non-disruptive upgrades and provides superior data availability to ensure business continuity for each class of data center.

Data Protection Appliances ETERNUS CS



Model	ETERNU	S CS800 S4
	Entry	Scale
Туре	Backu	ıp Target
Capacity	4.8/9.8 TB	8 – 240 TB
Ethernet ports	5x1 GbE (fixed) 2x10 GbE (optional)	3 x1 GbE (fixed) 8x1 GbE (optional) ¹⁾ 4x10 GbE (optional) ²⁾
Fibre channel ports	2x8 GbFC (optional)	4x8 GbFC (optional) ³⁾
Hot Spare Option	No	Yes
Virtual tape drives	Max. 80	Max. 160
Virtual tape cartridges	Max. 9000	per partition
NAS supported protocols	NFS	S/CIFS
NAS shares	Ma	x. 128
Partitions	Ma	ıx. 64
Tape Drive Emulations (Excerpt)	DLT7000, SDLT320, SDLT	7600, SLT-S4, LTO-1/2/3/4/5
Library Emulations (excerpt)	ADIC Scalar 24; Scala	r 100/i500/i2000/i6000
Performance	up to 5.5 TB/h	up to 11.5 TB/h
Included software	Deduplication, Replic	ation, OST, Path-to-Tape
Dimension (WxDxH)	483 x 770 x 89	9 up to 978 mm
Weight	25 up	to 375 kg

 $^{^{1,\,2),\,3)};}$ One of these 3 options has to be selected; Max. 2 of these 3 options can be combined; Combination 1) and 2) not supported



Model	ETI	ERNUS CS8000 series V	/6 ¹⁾
	CS8200	CS8400	CS8800
Туре	Scale-up System	Scale-out-single-site System	Scale-out-split-site System
Front-end Port Options	VTL only	NAS	only only nd NAS
VTL Front-end Ports	4 to 8 FC/FICON 8Gb	4 to 40 FC/FICON 8GB	4 to 40 FC/FICON 8GB
Virtual Tape Drives	32 to 64	32 to1280 (FC), 640(FICON)	32 to1280 (FC), 640(FICON)
NAS Front-end Ports	-	4x1GbE to 40x1GbE or 2x10GbE to 40x10GbE	4x1GbE to 40x1GbE or 2x10GbE to 40x10GbE
Sustained Performance	Up to 5 TB/h		0 TB/h with selected compression ratio 3:1
Internal RAID Capacity (uncompressed)	7.2 TB to 948 TB	7.2 TB to 15.2 PB	7.2 TB to 15.2 PB
Internal VTL Deduplication Store Option (raw)	-	1 to 4800 TB	1 to 4800 TB
Virtual Tape Volumes (max.)	300,000	3,000,000	3,000,000
NAS Shares (max.)		2048	2048
Number of Files (max.)		2 Billion	2 Billion
Back-end Port Options ²⁾	VTL	NAS	only only nd NAS
VTL Back-end Ports	4 to 40 FC	4 to 40 FC	4 to 40 FC
NAS Back-end Ports	-	4 to 16 active FC 8 Gb 4 to 16 passive FC 8Gb	4 to 16 active FC 8 Gb 4 to 16 passive FC 8Gb
Physical Tape Drives	10	2 to 112	2 to 112
Physical Tape Volumes (max.)	50,000	50,000	50,000
Physical Tape Libraries (max.)	2	10	10
Dimension (W x D x H) per Rack	2,003 x 700 x 1,050 mm (78.86 x 27.56 x 41.33 inches)	2,003 x 700 x 1,050 mm (78.86 x 27.56 x 41.33 inches)	2,003 x 700 x 1,050 mm (78.86 x 27.56 x 41.33 inches)

¹⁾ Preliminary data

²⁾ Back-end port options depend on applied front-end ports

Storage Partners

To complement the Storage portfolio Fujitsu cooperates with many global technology partners.

NetApp

NetApp creates innovative storage and data management solutions that accelerate business breakthroughs and achieve outstanding cost efficiency. Fujitsu and NetApp have a proven track record of providing customers with best in class products, solutions and services. NetApp products have been integrated into Fujitsu's solutions and Fujitsu has also become the biggest reseller partner of NetApp both in EMEA and on global level. As customers' buying patterns have shifted towards vendors with a more holistic and collaborative approach to data center needs, Fujitsu and NetApp have jointly created a set of solutions that provide midsized and enterprise customers with easy-to-use and tightly integrated data management solutions.



Brocade

Fujitsu and Brocade are driving datacenter agility. They provide end-to-end solutions to assist customers evolve their datacenters to support anytime, anywhere, any device application requirements. As leader in Ethernet Fabrics and in Storage Networking, Brocade is the networking provider that transitions organizations smoothly to a world where information and applications reside anywhere. The Brocade switch family stands for high performance SAN concepts and high availability.



Quantum

The partnership between Fujitsu and Quantum has existed since 1983 (at that time with Siemens and Grau Data Storage, later as ADIC). Quantum is Fujitsu's global "Preferred Storage Partner" for tape libraries in the midrange and enterprise segment. Quantum's tape libraries offer intelligent best-in-class backup solutions that are integrated into Fujitsu's product portfolio and constitute an important component of Fujitsu's Dynamic Infrastructures portfolio. Through an Authorized Service Partner contract with Quantum, the customer can benefit from installation and maintenance all from one source.



Oracle 1 4 1

Fujitsu and Oracle have a multi-decade partnership. Oracle's proven StorageTek tape library solutions help the customer to manage complexity, control costs, and deliver on service level agreements. Through the open architecture and varied connection options the STK SL libraries can be optimally integrated in backup environments together with Fujitsu's ETERNUS systems.



Symantec

Symantec is a global leader in providing security, storage and systems management solutions to help our customers – from consumers and small businesses to the largest global organizations – secure and manage their information. Symantec and Fujitsu as global strategic partners deliver combined solutions and the highest levels of service and support to customers worldwide. Symantec's Data Protection products constitute an important component of Fujitsu's storage portfolio.



CommVault

Evaluated as a leader in Gartner's latest Magic Quadrant for Enterprise Disk-based Backup/Recovery, CommVault Simpana software is the first software to seamlessly unify backup and archiving, bridging physical and emerging virtual storage worlds with a single platform. Thanks to the partnership, Fujitsu is extending the in-depth integration between Simpana software and Fujitsu's optimized backup and archiving storage systems.



Violin Memory

Violin's flash memory arrays deliver storage at the speed of memory, accelerating business critical applications and enabling fully virtualized and optimized IT infrastructures. The partnership with Violin is the third pillar of Fujitsu's threefold performance strategy built on flash-storage technologies. It extends Fujitsu's offerings to deliver the right solution for dealing with applications like large databases, business analytics and big data where low latency and fast response times are key requirements.



Disk Storage Systems NetApp FAS



TB TP*, FTP*, FC*, iSCSI, FCoE* D levels + RAID DP (RAID 6) ore Channel es, fans, network ports, redundant controller (full , disk access paths, cache content is protected by tteries (NVRAM battery, ECC) MM Management Software and asynchronous mirroring
TP*, FTP*, FC*, ISCSI, FC0E* D levels + RAID DP (RAID 6) re Channel es, fans, network ports, redundant controller (full , disk access paths, cache content is protected by tteries (NVRAM battery, ECC)
TP*, FTP*, FC*, iSCSI, FCoE* D levels + RAID DP (RAID 6) re Channel es, fans, network ports, redundant controller (full , disk access paths, cache content is protected by tteries (NVRAM battery, ECC)
D levels + RAID DP (RAID 6) ore Channel es, fans, network ports, redundant controller (full , disk access paths, cache content is protected by tteries (NVRAM battery, ECC) ™ Management Software
D levels + RAID DP (RAID 6) ore Channel es, fans, network ports, redundant controller (full , disk access paths, cache content is protected by tteries (NVRAM battery, ECC) ™ Management Software
ore Channel es, fans, network ports, redundant controller (full , disk access paths, cache content is protected by tteries (NVRAM battery, ECC) ™ Management Software
es, fans, network ports, redundant controller (full , disk access paths, cache content is protected by tteries (NVRAM battery, ECC) ™ Management Software
, disk access paths, cache content is protected by tteries (NVRAM battery, ECC) ™ Management Software
and asynchronous mirroring
and asynchronous mirroring
48 kg
exVol®, deduplication, compression, and thin
Multipath I/O and MultiStore®
ion: RAID-DP®, Snapshot™, NearStore®, and Open pVault®
: FlexShare®
ls: All supported data protocol licenses are included.
ras: 2º, SnapMirrorº, SnapVaultº, FlexCloneº, erº Suite OnCommand Balance for NetApp, Cluster

^{*} only with FAS2240





FAS3220 / FAS3250	FAS6220 / FAS6250 / FAS6290
Unified	
1440 / 2160 TB	4800 / 5760 / 5760 TB
480 / 720	1200 / 1440 / 1400
NFS, CIFS, HTTP, FTP, FC, iSCSI, FCoE	
Standard RAID levels + RAID DP (RAID 6)	
Ethernet, Fibre Channel	
Power supplies, fans, network ports, redundant co content is protected by means of batteries (NVRAI	ntroller (full redundancy), disk access paths, cache M battery, ECC)
OnCommand™ Management Software	
Yes	
Synchronous and asynchronous mirroring	
Yes	
Approx. 450 – 600 kg	Approx. 700 kg
Additional features: High Availability MultiPath I/O, SyncMirror MetroCluster,	

Open Systems SnapVault Backup of DAS connected to Windows or UNIX. Secure Mult-tenancy MultiStore

Storage Efficiency Deduplication, Thin provisioning, FlexVol

Data Protection RAID-DP, Snapshot

Performance FlexCache, FlexShare

Storage Protocols Included SAN or NAS protocol

Optional extras:

Application Integration SnapManager® Suite for Oracle, Exchange, SharePoint, SQL, SAP, Virtual

Infrastructure and Hyper-V

System Recovery SnapRestore®
Disaster Recovery SnapMirror® for businesscritical

applications.

Virtual Cloning FlexClone® Disk-to-disk Backup SnapVault® Storage Protocols Optional SAN and

NAS protocols

Disk Storage Systems V Series





Model	V3200 Series / V6200 Series		
Туре	Unified		
Storage capacity – physical	Up to 2160 TB / 5760 TB per V-single system (depending on the external system)		
Hard disks	Supports all disk technologies		
Communication protocols	NFS, CIFS, HTTP, FCP, ISCSI		
RAID level	Standard RAID levels + RAID DP (RAID 6)		
Interfaces	Ethernet, Fibre Channel		
Redundancy note	Power supplies, fans, network ports, redundant controller (full redundancy), disk access paths, cache content is protected by means of batteries (NVRAM battery, ECC)		
Administration	OnCommand™ Management Software		
Snapshots/Clones	Yes		
Remote mirroring	Synchronous and asynchronous mirroring		
19" rackmount	Yes		
Weight	Approx. 450 -700kg		
Special features	Additional features: High Availability MultiPath I/O, SyncMirror MetroCluster, Storage Efficiency Deduplication, Thin provisioning,FlexVol Data Protection RAID-DP, Snapshot Open Systems SnapVault Backup of DAS connected to Windows or UNIX. Secure Mult-tenancy MultiStore Performance FlexCache, FlexShare Storage Protocols Included SAN or NAS protocol		
	Optional extras: Application Integration SnapManager® Suite for Oracle, Exchange, SharePoint, SQL, SAP, Virtual Infrastructure and Hyper-V System Recovery SnapRestore® Disaster Recovery SnapMirror® for businesscritical applications. Virtual Cloning FlexClone® Disk-to-disk Backup SnapVault® Storage Protocols Optional SAN and NAS protocols		

Network Components Brocade





Model	Brocade 300 Switch Brocade 5300 Switch			
Туре	Fibre Channel Switch			
Fibre Channel ports	8 - 24	48 - 80		
Speed	1/2/4/	'8 Gbit/s		
FC Media (SFP) & distance	8 Gbit/s, 4 Gbit/s MMF: 100 m (0M3) SMF: 10 – 25 km (8 Gbit/s), 4 – 30 km (4 Gbit/s)			
Rack height	1 U	2 U		
Port types	FL, F, E, M	FL, F, E, M, EX		
Ethernet-ports	-			
Available MMF cabling	2 – 15 m rack internal 10 – 100 m external	OM3 & OM4 cabling available 5m rack internal 10 – 100 m external		
Available SMF cabling	10/20 m, other l	engths available		
Server management	ServerView	& 3rd party		
Redundant components	None	PSU, FAN		
Enterprise Administration software	Brocade Network Advisor (BNA)			
Target customers/applications	SAN edge, SAN spots Enterprise, Core & med Fabrics			





Brocade 6505 Switch	Brocade 6510 Switch	Brocade 6520 Switch				
	Fibre Channel					
12 - 24	12 - 24 24 - 48 48					
	2/4/8/10/16 Gbit/s	,				
MMF: SFP	FC 8 Gbps, SFP FC 10 Gbps, SFP FC SMF: SFP FC 8 Gbps 10km/ 25km SFP FC 16 Gbps 10km/ 24km	16 Gbps,				
1	1 U 2U					
	D, E, EX, F, M					
	for device management only					
5/1	0/20 m; other lenghts project spec	ific				
10	/20 m; other lenghts project speci	fic				
ServerView & 3rd party						
	PSU, FAN					
	Brocade Network Advisor (BNA)					
Small & medium-sized fabrics Enterprise, Core & medium-sized fabrics						



Model	Brocade 7800 Extension Switch
Туре	Extension Switch/FCIP Routing
Fibre Channel ports	FC (8 Gbps): 4-16 IP (1 Gbps): 2-6
Speed	2/4/8 Gbit/s
FC Media (SFP) & distance	FC: SFP8/4 Gbps IP 1G: RJ45 or SFP for optical short range
Rack height	1 U
Port types	FL, F, E, EX, VE, VEX
Ethernet-ports	2 - 6
Available MMF cabling	5 m rack internal 10 – 50 m external
Available SMF cabling	10 – 200 m or customized
Server management	ServerView & 3rd party
Redundant components	PSU, FAN
Enterprise Administration software	Data Center Fabric Manager (DCFM)
Target customers / applications	Enterprise, Core & large sized Fabrics, SAN Extension for Remote Data Replication, Backup and Migration

Network Components Brocade





Model	Brocade DCX Backbone	Brocade DCX-4S Backbone			
Туре	Fibre Channel Backbone				
Fibre Channel ports	16 - 512 16 - 256				
Speed	2/4/8/10 Gbit/s				
FC Media (SFP) & distance	MMF: 150 m (OM3) SMF: 10 – 25 km, longer distances in projects				
Rack height	14 U	9 U			
Port types	E, EX, F, FL, M, VE, VEX				
Ethernet-ports	FCIP 1G/10G with Blade FX8-24 FCoE 10G with Blade FCoE24				
Available MMF cabling	5/10/20m; other lenghts project specific				
Available SMF cabling	10/20m; other lenghts project specific				
Server management	ServerView				
Redundant components	PSU, FAN, Blade Management, Blade Core Routing				
Enterprise Administration software	Brocade Network Advisor (BNA)				
Blade slots	8	4			
Blade options	Blade FC8G (16P, 32P or 48P) Blade FC8G 64P (mSFP) Blade FCIP 4-18i (4G FC & 1G IP); Blade FC 10G Blade FC0E Blade FX8-24 Blade Encryption				
Target customers / applications	Data centers & large enterprises	Data centers & medium to large enterprises			



Brocade 8510 Backbone

Fibre Channel Backbone

32 - 512

2/4/8/10/16 Gbit/s

MMF: 100m (0M3)

SMF: 10, 25km, longer distances in projects

9 - 14 U

D, E, EX, F, M

FCIP 1G/10G with Blade FX8-24

5/10/20m; other lenghts project specific

10/20m; other lenghts project specific

ServerView

PSU, FAN, Blade Management, Blade Core

Routing

Brocade Network Advisor (BNA) for SAN

4/8

Blade FC16G (32P or 48P)

Blade FC16G (32P or 48P) 8G limited

Blade FC8G 64P (mSFP) 8G limited

Blade FX8-24

Data centers & medium to large enterprises

Network Components Brocade





Model	Brocade VDX 6720 Data Center Switch	Brocade FCX648S	
Туре	Ethernet / Converged Ethernet	Ethernet	
Number of RJ45 Ports (1GbE)	=	48	
Number of SFP / SFP+ Ports (1 or 1/10GbE)	16/24 - 40/60	4 +2 (XFP)	
Optional feature licenses	FCoE VCS	-	
Redundancy	FAN, PSU	PSU	
SFP / SFP+ options	LC (MMF/SMF), Twinax, RJ45	LC (MMF/SMF)	
Stacking	Via VCS	-	
Form factor	1U / 2U	1U	
Deployment Scenarios	Low latency requirements, Virtualization, FCoE	Smaller environments with 10GbE uplinks and basic redundancy requirements	







Brocade ICX 6430	Brocade ICX 6450	Brocade ICX 6610		
Ethernet	Ethernet	Ethernet		
24 / 48	24 / 48	24 / 48		
4	4	8 + 4 QSFP (40GbE)		
-	Premium license (Layer 3 features)	Premium or advanced license (Layer 3 features)		
-	-	FAN (opt), PSU (opt)		
LC (MMF/SMF), Twinax	LC (MMF/SMF), Twinax	LC (MMF/SMF), Twinax		
Up to 8 switches	HyperEdge, up to 8 switches	HyperEdge, up to 8 switches		
1U	1U	1U		
Focus on 1GbE connectivity, optimized price per port ratio	10GbE connectivity at entry level price	Advanced stacking requirements, 10GbE connectivity, Layer 3 support requirements		

Tape Systems Scalar





Model	Scalar i500	Scalar i6000
Drive Type	LTO-4 Full height, LTO-5 Full height, LTO-6 Full height	
Max. capacity native	1,022 TB	30,015 TB
Max. number of slots	409	12,006
Max. number of drives	18	96
Tape system interface	SCSI, SAS, Fibre Channel	Fibre Channel
Special features	Based on the iPlatform™ architecture the library integrates advanced backup functions to increase overall data protection, simplify management, reduce the need for external servers and software, and save users time and money over the life of their backup system. The Scalar i500 offers industry-leading RAS features designed to meet the availability requirements of the most demanding midrange data centers. Hot swap drives are standard on all models. The library's capacity-on-demand scalability provides non-disruptive growth from 41 to 409 tape positions. The single, continuous robotics system guarantees fast, reliable cartridge transfer under the widest possible range of conditions. The iPlatform™ architecture and integral management software make backup easier to manage and give users more control over the process. Its proactive monitoring and remote diagnostics can reduce service calls by 50% and shorten issue resolution times by 30%.	The intelligent Scalar® i6000 tape libraries are specifically designed for the archive and long-term data retention needs in an enterprise-level environment. The Scalar i6000 offers many new features such as next generation iLayer software, a new Storage Networking solution, Extended Data Life Management (EDLM) data integrity feature, Dual Robots, Active Vault and bulk load I/E capabilities. Scalar i6000 tape libraries dramatically improve the security and manageability of your enterprise backup, disaster recovery, and archiving processes. Quantum customers experience significant management time savings due to the proactive monitoring and intelligent diagnostic features in iLayer management software, up to 75% savings compared to other libraries. The utilization of the iLayer software also reduces service calls by 50% and shortens resolution time by 30%. In addition, Scalar i6000 tape libraries accommodate continual data growth, expanding to up to 12,006 LTO slots in a single library, enough for very large tape environments and tape consolidation projects.

Tape Systems SL





Model	SL150	SL3000 with LTO	SL3000
Drive Type	LTO-5 Half height LTO-6 Half height	LTO-5 Full height, LTO-6 Full height	T10000 C/D
Max. capacity native	750 TB	14.8 PB	50.3 PB
Max. number of slots	300	5,925	
Max. number of drives	20	56	
Tape system interface	SAS, Fibre Channel	Fibre Channel	Fibre Channel, FICON
Special features	SL150 modular tape library is the first scalable tape library designed for growing small to midsized companies. It delivers an industry-leading combination of ease of use and scalability. Ideal for backup and archival applications, the SL150 modular tape library saves both time and money, setting the new standard for entry tape automation. The SL150 emphasizes simplicity and reduces costs through exceptional scalability, common storage management tools and do-it-yourself installation and upgrades. The easy-to-use remote browser GUI helps streamline library management and allows you to perform library operations, manage library settings, and proactively monitor the library's health. With the SL150, simplicity begins with the library installation and continues throughout the life of the product, even as you expand for data growth. The library can be initialized in a few steps via the local touchscreen operator panel, and upgrades are easy, since they require no tools, complicated cabling, or technical support.	The SL3000 scal to 5,925 cartrid from one to 56 if footprint that grack environment any Cartridge Ar Slot Anywhere te let you design yenvironment the want it. Which nuse the drive typ meet your access the capa StorageTek T100 LTO drives. In affibre Channel in enterprise-stren in mainframe at environments.	ge slots and drives, all in a ows linearly in a nt. The SL3000's ny Slot and Any echnologies our storage e way you really neans you can best that best is and storage city-centric (00 drives, or dition, the terface provides



SL8500 with LTO	SL8500
LTO-5 Full height, LTO-6 Full height	T10000 C/D
250 PB	857.5 PB
100,880	
640	
Fibre Channel	Fibre Channel, FICON

The SL8500 modular library system will attach into mainframe, supercomputer, Unix and Windows environments. The SL8500 library scales from 1000 to over 100,000 cartridges to accommodate years of growth in the storage environment. The SL8500 supports the StorageTek T10000 and LTO tape drives. The library can be upgraded with future drive types and more cartridge slots to increase capacity during operation with no system downtime. High performance robotics enables the SL8500 to keep pace with the unpredictable peak workloads and future demands for higher throughput. Redundant hot swap robotics, power and electronics are available for maximum availability. The SL8500 library provides superior reliability, availability and serviceability through redundancy, hot-swap components and multiple robots.

Hardware Maintenance and Software Support

Fujitsu delivers Maintenance and Support services for Fujitsu products and heterogeneous infrastructures out of one hand. Installing new products and providing fast and reliable support either remotely, offsite or onsite, with reactive and proactive support elements is our contribution to reduce customers' total cost of ownership.

Startup Services

InstallationPacks comprise offerings supporting the customer in installation of hardware- and/or software products. They grant fast start and reliable operation of the purchased system in the customer environment. The offering ranges from the installation of a single server or storage system up to the installation of a heterogeneous and complex IT infrastructure according to the customer's specifications.

Hardware Maintenance and Software Support

Hardware Maintenance and Software Support services increase availability within the IT landscape and ensure safeguarding of IT assets and operations, even in multivendor environments. Selected service levels are globally available. For a smooth operation of a software infrastructure a key element is to have access to all error corrections, updates and upgrades, but also

to receive technical support when required. HDD Retention authorizes the customer to keep ownership of an exchanged storage medium (HDD or SSD).

The offerings are available as:

- Fujitsu Support Pack
 Hardware or Software
 with a service period between
 1 and 5 years and up-front
 payment. Prolongation is
 possible.
- Fujitsu ServiceContract
 Hardware or Software
 with individually agreed contract terms and service period starting with 12 months.

Fujitsu SolutionContract

This offering complements defined Fujitsu Solutions. It comprises clearly defined reactive and selectable proactive service elements. Fujitsu includes expert level know how about the solution into the fault analysis and elimination process. Within the proactive services. Fujitsu offers a named personal contact to support the customer, in service relevant topics, regarding the contracted solution infrastructure, e.g. to guide and coordinate maintenance task with customers change management process. Contract model: minimum service period is 3 years.

Managed Maintenance

Customers IT infrastructures in data centers, back offices in different branches usually consist of multivendor environments: servers. storage, switches, tablets, etc. are often bought on best price/performance ratio. The SLAs for all these products are usually not consistent and, depending on the product vendor the service provider is different. This is a fact where we start to help the customer to reduce complexity with efficient administration and the management of existing service contracts and vendors. With Managed Maintenance the customer has a central contact for all maintenance and support issues worldwide. The result is significantly decreased outlay for administration for systems of different manufacturers, optimal support of multivendor environments as well as long-term protection of investments in a heterogeneous IT scenario.

Standardized contract management creates transparency and simplifies handling and procurement.

All existing service contract are included in a flexible SLA catalogue, where SLA's are defined on severity and impact of the IT systems within the business processes and systems can be added, removed or changed easily.

Fujitsu is the only negotiating partner. The customer gets one report with a clear overview about the SLA fulfillments of all the different products and one invoice what reduce the workload at customer site immediately. A near real-time reporting will give the customer an overview and the possibility to control their IT processes as well as full transparency as to quality of service. All service processes are geared toward the internationally recognized ITIL standard and are certified according to an international management system with central governance.

So briefly when a customer chooses Managed Maintenance services from Fujitsu we act as Single-Point-of-Contact and Responsibility (SPOC and SPOR) for operating the customer's multivendor data center infrastructure.

This refers to costs savings potential and an increase in quality with service contract management from a single source. Managed Maintenance ensures clear-cut service responsibilities and companies and IT staff can focus on their core business.

Hardware Maintenance and Software Support

			Hardware Support Offsite				
PRIMERGY a available in 9x5, nex onsite re 9x5, 4 ho	oport Packs for nd ETERNUS are globally major business areas: t business day sponse purs onsite response nours onsite response	Installation Pack	Bring-In	Collect & Return	Desk-to- Desk or Door-to- Door	Best Effort	
X86 Server	PRIMERGY	•				•	
Enterprise Server	PRIMEQUEST	•				•	
Mainframe Server	BS2000/OSD Business Server					•	
Storage	ETERNUS CS800, DX, JX, LT	•				•	
OEM/ Reseller	NetApp, Quantum, Oracle, Brocade, Cisco				Service o	fferings are	
other	Products of other vendors				Service o	fferings are	

Software		Licensor	9x5, 24x7 Remote Response Time		
			2h	4h	
Operating System	Solaris	Fujitsu/Oracle	•	•	
. ,	RedHat® Linux	RedHat	•	•	
	SUSE Linux	SUSE	•	•	
High availability	ROR/RCVE	Fujitsu	•	•	
	VERITAS™ Cluster Server	Symantec	•	•	
Virtualization	vSphere®, vCloud Suite®	VMware	•	•	
	XEN Desktop/Server	Citrix	•	•	
	VIOM	Fujitsu	•	•	
Storage Software	Brocade Software	Brocade	•	•	
	NetWorker®	EMC	•	•	
	NetBackup	Symantec	•	•	
	Enterprise Vault	Symantec	•	•	
	Simpana®	CommVault	•	•	
	ETERNUS® SF	Fujitsu	•	•	
	ETERNUS® Snapshot Manager	Fujitsu	•	•	
	FalconStor NSS	FalconStor	•	•	
DDC	CA Infrastructure Management	CA	•		
	ManageNow [®]	Fujitsu	•	•	
	Storage Foundation	Symantec	•	•	
	Open FT Enterprise File Transfer	Fujitsu	•	•	
	Xprint	OCE	•	•	
	SecDocs®	Fujitsu	•	•	
HPC	HPC Cluster Suite	Fujitsu	•	•	

Legend:

Generally available across CEMEA&I
 Availability depending on product and country within CEMEA&I

Hardware Support Onsite*								
	9x5			24×7				
NBD	4 h	NBD	4 h	24 h	8 h	4 h	HDD Retention	
	esponse ne	Recovery Time	Onsite Response Time	Recovery Time				
•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•		
•	•	•	•	•	•	•	•	

subject to product and local country availability.

available with service levels that best fit to such products

*) Service levels are available as Support Pack or ServiceContract Content subject to change without prior notice HDD Retention availability depends on storage media

SolutionContracts							
Service time	9x5	24x7	24x7	9x5	24x7	24x7	24x7
Recovery **			ND				
Onsite response **	NBD	ND		NBD	ND		
Remote response **	4 hours	4 hours	0.5 hours	4 hours	4 hours	0.5 hours	0.5 hours
Error corrections, SW updates and SW upgrades	yes	yes	yes	yes	yes	yes	yes
System Health Check, Patch Information, Technical Account Management	-	-	-	half- yearly	half- yearly	half- yearly	half- yearly
Defined Solution Infrastructures and Service levels							
DI Block	•	•	•	•	•	•	•
Dynamic Infrastructure® for vCloud	•	•	•	•	٠	٠	٠
ETERNUS® CS High End	•	•	•	•	•	•	٠
FlexFrame® for SAP	•	•	•	•	•	•	•
Power Appliance for SAP HANA®	•	•	•	•	•	•	•

^{**)} The stated service levels always refer to the highest severity level. Installation of functional software upgrades at additional charge.

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Storage Software and Services

Fujitsu offers a complete portfolio of enterprise storage solutions that includes hardware, software, consulting, integration and service. Professional Services from Fujitsu support you in meeting your IT storage requirements. They help you exploit the full solution potential of your storage systems.

Service Packages

Integration concepts for

- storage strategy
- storage solutions
- storage consolidation
- storage disaster recovery
- storage migration

Technical design and standard implementation services for ETERNUS CS, ETERNUS DX and ETERNUS LT, Storage Area Networks and more.

More information:

→ www.fujitsu.com/fts/services

Backup					
A copy of the information					
Necessary for recovery					
Increases availability, since applications can be restored from a certain point in time					
Typically short-term: days or weeks					
Data is regularly (daily, weekly) replaced by the latest version					
CommVault Simpana	Combining professional backup and archiving in one single product				
Symantec NetBackup	Professional backup for large heterogeneous environments				
Symantec Backup Exec	Simple and cost-effective backup for SME				

Storage Software

Fujitsu delivers innovative data protection software from leading partners which is optimally integrated and tested with our hardware and solutions. The software portfolio enables you to increase operational efficiencies, lower costs, mitigate risks and improve service quality.

CommVault Simpana:

By leveraging a single unified code base and platform, Simpana software simplifies an IT organizations ability to manage data across its lifecycle with integrated modules for Backup & Recovery, Archive, Replication, Resource Management and Search.

Symantec Backup Exec:

Cost-effective backup and recovery for small and medium businesses that lets you easily protect more data while reducing storage and management costs.

Symantec NetBackup:

Simplifies the protection of your information-driven enterprise by automating advanced technologies and standardizing operations across applications, platforms and virtual environments.

Symantec Enterprise Vault:

Symantec

Enterprise Vault

The industry's most widely-deployed archiving solution, is a platform that bridges the gap between legal and IT by adding intelligence to the way organizations store, manage and discover information.

More information about our software portfolio is available on:

→ www.fujitsu.com/fts/storage-software

Primary information					
For information retrieva	For information retrieval				
Increases operative efficiency, since fixed or unstructured data can be extracted from operative environment					
Typically long-term: month, years, decades					
Data is preserved for analysis/compliance reasons					
CommVault Simpana	Combining professional backup and archiving in one single product				

Professional archiving software

Archive

Solutions

Fujitsu solutions are combinations of hardware, software and services to resolve customer challenges and to provide customer benefit.

Our Vision is to create a humancentric IT, enabling the networked society. We provide our customers with freedom of choice and ease of use by combining different elements into smoothly working solutions that allow our customers to drive their business more efficiently and also to enable them to address new business opportunities. We offer a comprehensive technology and solution portfolio to shape and grow the business of our customers. On the following pages we give a short overview of selected elements of our comprehensive solution offerings:

SAP Solutions

As a SAP Global Partner for technology, service and hosting, we provide enterprises with end-to-end support at application and IT infrastructure levels, in implementing, integrating and operating SAP solutions. Our offering comprises all aspects to support our customers' businesses, starting with strategic consulting, design and build up to operate and maintain

Technology and SW Solutions

Our Technology and Software solutions portfolio provides private cloud solutions supporting our customers with solutions and technologies and enabling them to set up their own private clouds and to manage and automate their data centers. The private cloud enabling portfolio comprises amongst others Fujitsu Integrated System Cloud Ready Blocks, Dynamic Infrastructures for VMware vCloud and ServerView Resource Orchestrator, Our Data Center Management & Automation portfolio includes products and solutions from 106

Fujitsu and selected technology partners that allow agile, flexible and fast adaptation of IT infrastructures to business requirements.

HPC

With our HPC portfolio we address the rapidly growing demand for high performance computing with intelligent solutions that deliver top performance tailored to meet today's HPC requirements, while scaling for tomorrow's increasing needs.

Security Solutions

With Fujitsu SecDocs and Fujitsu Palm-Secure we provide high quality security solutions. "Why?" is no longer the question when thinking about security solutions. "Which one?" and "When" turn out to be the more important. We support our customers with the Fujitsu Compliant Archiving Solution SecDocs and the latest development in biometric technology solutions, PalmSecure, biometric palm vein authentication. Patented and certified by BSI (Bundesamt für Sicherheit in der Informationstechnik), PalmSecure lifts Log In. Access Control and specialized biometric identification solutions to a new level.

Cloud Solutions

Whether you want to respond more rapidly to changing business needs or build new business from scratch without heavy up-front investments, the cloud may be the best way forward. It opens up new business opportunities, while driving down cost and energy consumption. With a comprehensive portfolio of Fujitsu solutions and a large and growing partner ecosystem, Fujitsu is the ideal partner for your journey to the cloud. We provide one of the most complete and proven cloud portfolios in the marketplace covering Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (laaS).

Solutions for SAP® Environments

FlexFrame®









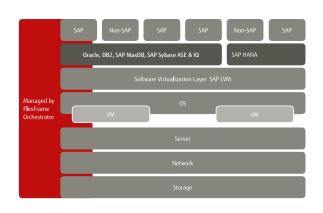


SAP applications are crucial for the success of enterprises worldwide. To dynamically respond to changing business needs, new SAP services need to be provisioned rapidly. At the same time IT departments need to cope with further and partly conflicting requirements like improving quality of service while reducing capital and operational expenses.

FlexFrame is a hundredfold proven infrastructure solution for modern and efficient management of the entire SAP landscape, pre-installed on industry-standard PRIMERGY servers and NetApp storage systems. FlexFrame streamlines data center infrastructure and SAP operations and thus allows SAP environments to be managed faster, better, cheaper and easier – regardless of whether they are on-premise, managed, hosted or in the cloud.

Our cost-efficient entry version FlexFrame Compact is designed for all application scenarios up to 10,000 SAPS. FlexFrame Compact ensures comprehensive improvements in SAP operations, integrating the proven FlexFrame high-end functionalities into SAP environments with a limited scope.

The new FlexFrame Orchestrator extends the reliable FlexFrame functionality to unified SAP landscapes including SAP HANA® and combines now the operation of SAP ERP environments and SAP-HANA infrastructures in one solution. IT organizations can now deploy the solution to consistently optimize processes and achieve high levels of quality for all SAP services.



Solutions for SAP® Environments

FlexFrame Orchestrator

Transparency through central management for classical SAP operations and SAP HANA

FlexFrame Orchestrator enables enterprises to implement innovations from SAP much faster, making the operation of their SAP environments simpler, more efficient and less expensive. This also applies to SAP HANA. Enterprises can also securely manage the in-memory database, which is a mission-critical factor. In FlexFrame Orchestrator this is accomplished through central and transparent management of the SAP platform, including HANA infrastructures. Customer benefits include high operational security for the entire SAP environment, consistently optimized processes and considerable cost savings.

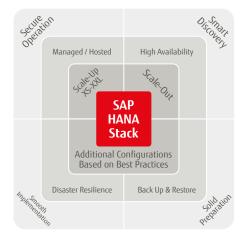
High performance and availability for HANA environments

FlexFrame Orchestrator can be integrated in heterogeneous data center environments without interrupting live operations. FlexFrame Orchestrator provides highly developed, integrated management functions for setting up and running an SAP HANA-optimized infrastructure. Implementation, operation and enhancements have high levels of automation. To ensure efficient provisioning of optimal performance, system resources can be allocated dynamically, and workloads can be distributed with flexibility. And that is not all: FlexFrame Orchestrator is a unique high-availability solution for infrastructures running SAP HANA. For example, mission-critical applications can be backed up by several failover servers, and fewer critical services need to share one failover server. Disaster recovery installed at two different sites can also be realized without needing to take additional steps.

FlexFrame Orchestrator is open to third-party providers

For the first time, Fujitsu offers FlexFrame Orchestrator as an open solution by lifting the restrictions that had applied to certain hardware and software components – the solution is now available purely as a software appliance. Thus even more users can take advantage of the benefits offered by FlexFrame technology. A certification program ensures that FlexFrame Orchestrator functions smoothly and seamlessly with data center components from thirdparty suppliers.

Solutions for SAP® Environments Fujitsu Power Appliance for SAP HANA®



SAP HANA is an in-memory data platform which allows companies to completely process transactional and analytical data in the main memory of a computer, thus providing organizations with real-time business insight. Consequently SAP HANA enables companies to drive business smarter, based on faster and more informed decisions, supported by indepth reporting, analysis and predictions based on real-time data.

To fully leverage the capabilities of SAP HANA, customers need a tailored infrastructure. The Fujitsu Power Appliance for SAP HANA is an SAP-validated infrastructure solution for the SAP HANA software, based on Fujitsu PRIMERGY servers und NetApp storage systems. Fujitsu offers the right solution for various usage scenarios and capacity requirements - from low-cost entry-level configurations with one PRIMERGY RX600 server, flexible and highly scalable scale-out solutions right through to disaster-tolerant configurations. Delivery as a pre-installed and tested solution plus Fujitsu on-site services ensure fast and non-disruptive implementation and operation at the customer site.

A comprehensive portfolio of supplementary services supports customers in all project phases; from decision making up to ongoing operations. The offering is supported by the Fujitsu SAP HANA Global Demo & Competence Center and BI experts from TDS AG, a Fujitsu Group subsidiary. Our services range from SAP HANA trials and proof of concept projects, via data migration up to financing offerings.

Customers who search for a uniform and consistent management of the entire SAP software landscape including the SAP HANA infrastructure can benefit from our innovation FlexFrame Orchestrator. This unique infrastructure management solution allows SAP applications to be run easier, faster, better and at lower cost.

Solutions for SAP® Environments Fujitsu Power Appliance for SAP HANA®

Main Features	Benefits
Professional factory staging	Quick time to value and cost savings through customer- specific pre-installation and turnkey delivery
Comprehensive infrastructure offering, comprising entry- level single node options (including XL and XXL servers for SAP Business Suite powered by SAP HANA) up to highly scalable scale-out solutions	Ample performance and capacity for different use cases, databases sizes and reporting requirements
VMware virtualized single node configurations (with pre-loaded VMware vSphere™ and VMware vCenter™)	Enables parallel development, evaluation and test projects, reducing launch timescales
High availability ranging from built-in high availability (n+1 concept) up to disaster resilience (2-site concept)	Ready for mission-critical use cases
End-to-end infrastructure services	Tailored, secure and fast infrastructure implementation and operation
Supplementary Services, e.g.: SAP HANA demos and test drives SAP HANA POV (onsite / hosted) Database services Financing solutions	Individual preview of business value plus optimal project preparation and implementation including special support for the fast migration from SAP NetWeaver BW to SAP HANA or the secure introduction of SAP Business Suite powered by SAP HANA
Centralized administration of the entire SAP software landscape with FlexFrame Orchestrator (optional)	Reduced administration effort, better hardware utilization, increased availability, cost reduction and increased service quality
Complete lifecycle management	Increased operational efficiency and stability
Based on PRIMERGY servers with a SUSE Linux operating system	Future-proof and cost-efficient environment based on industry standards



Fujitsu – Technology Innovator of the Year





SAP Partner Impact Award – Innovative Reseller of the Year 2012

High Performance Computing (HPC)

Scalable Performance from Technical to Supercomputing



Intel[®] Cluster Ready

Speed is Money! Reducing time to market is critical for profitability in many industries, and high performance computing (HPC) is becoming a critical tool in R&D and production to assure competitiveness.

"Ready-to-Go" HPC Cluster Solutions

High Performance Computing (HPC) solutions from Fujitsu deliver the performance to meet today's HPC challenges, while scaling for tomorrow's growing needs. With integrated and certified "Ready-to-Go" HPC cluster solutions a special focus is put on HPC from small and medium enterprises.

HPC Simplicity – Get greater overall value from your HPC application

SIMPLIFIED HPC means capturing knowledge and expertise within a solution that broadens HPC access and eases work, even for experienced users. From our comprehensive experience of real models and customer needs, we have architected this PRIMERGY HPC cluster solution to deliver the outcomes you need for better designs – faster.

Main Features

- Pre-installed systems configured to run optimized with your application
- System specification gained from many years of experience in benchmarking
- Simplified end-user environment for shorter time to production and sustained operational effectiveness
- Reliable & efficient HPC environment
- Lower investment costs compared to selfintegration of an individual HPC Cluster
- Intel® Cluster Ready (ICR) certification ensures interoperability with ICR-certified applications
- Complete solution support & services

Fujitsu

Data Center Management & Automation

End Customer's	,	Service Provider's View							
		Business Service Management							
Serf Service Portal		Capaci Managen		Contract Managem		SLA Management		Service Desk	
Security		Integra	ation a	nd Process Au	toma	tion		Billing	
Entitlement		Life Cycle and Service Asset Management Orchestration, Automation & Provisioning					Billing models		
Identity Mgmt.						Tariffs			
Access Mgmt.		IT Infrastructure Resor			urces			Users	
Single Sign On		Server	<u> </u>	Storage	Ne	etwork		Consumption Service related	
Infrastructure, Application, End User Services and Performance Monitoring				Capacity & Resource Planning					
Fault Management Reporting / Trend			Energ	gy Efficiency Data Colle		ata Collectior	1	Reporting / Trending	

To satisfy growing demands for agility, flexibility and speed in adapting IT infrastructures to business requirements, increasingly complex IT infrastructures need to be managed and automated. Recurring processes have to be standardized and automated with the help of ITIL (IT infrastructure library) to establish service quality management and to ensure compliance and governance. To reap the benefits of automation, various and heterogeneous system and data center management tools need to be integrated in a future-proof architecture.

The Fujitsu Offering

Fujitsu Data Center Management & Automation provides solutions, blueprints, software, hardware and services to manage and automate data centers. Service Level Management, Process Automation and Data Center Monitoring are amongst the most important challenges that are solved.

Our offering includes:

- Fujitsu Services comprise consult, design, build, operate, maintain and data center optimization services
- Fujitsu ManageNow® solutions for Data Center Management and Client & Server automation
- Fujitsu ServerView® solutions
- Predefined blueprints and best practices to accelerate implementation, easily adaptable to customer needs
- Standardized solution stack that comprises solutions from Fujitsu and selected technology partners like CA Technologies, Microsoft, OSS and others
- Fujitsu IT Management as a Service (ITMaaS)
- → www.ts.fujitsu.com/managenow

 Field-tested standards for methodology, integration services and software solution stacks that include maintenance and support

Customer Benefits

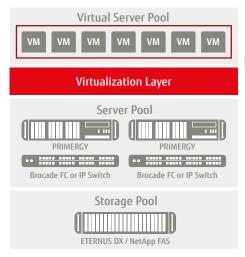
- Processes and automation improve agility, flexibility and speed
- Rapid implementation with preconfigured solutions
- Integration and adoption within heterogeneous data centers
- Fujitsu as trusted partner with a broad offering, independent consulting and a wide best-of-breed portfolio

What makes us different?

- Support of the complete project chain – consult, design, build, operate and maintain
- Comprehensive approach for projects of all sizes: Fujitsu blueprints, best practices and how-to concepts and documents ensure rapid implementation of enterprise IT monitoring solutions with up to 70,000 server and network devices around the globe

Fujitsu vShape

Virtualization Solutions from a Single Source





Fujitsu vShape® is an IT infrastructure solution that simplifies the transition to virtualization and cloud computing by providing validated reference architectures which scale with your needs – regardless of whether you are running a small, medium or large enterprise. Customers benefit from shorter time-to-production, increased operational efficiency and a single contact for delivery and support. As business expands, IT organizations simply choose the relevant vShape building blocks:

- Fujitsu PRIMERGY servers
- Fujitsu ETERNUS or NetApp FAS storage systems
- Technology-leading Brocade switches
- Market-leading hypervisors from VMware and Microsoft

By leveraging from the capabilities of best-in-class systems, fully based on standard technologies, vShape protects from vendor lock-in. The flexible approach is ideal for customers:

- In branch offices
- With fluctuating infrastructure demands
- Looking to consolidate and optimize applications
- Requiring a solution that is easy to deploy, operate and manage – despite limited IT resources

Fujitsu RapidStructure



RapidStructure at a glance

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. 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.

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

One Example: RapidStructure SharePoint

To meet the customer needs for collaboration Fujitsu designed the reference architecture RapidStructure SharePoint. As the name says it uses Microsoft SharePoint Server 2013 to help customers to achieve a complete solution for internal cooperation, which also enables both internal and external web pages to be created and administered. This pre-tested configuration is designed for up to 250 concurrent SharePoint users. In addition to the reduced implementation effort, RapidStructure SharePoint also offers an attractive price-performance ratio. The Fujitsu PRIMERGY TX200 S7 Server provide optimum availability and performance, as well as higher energy efficiency and modular expandability. The standard edition of Microsoft SharePoint Server 2013 provides a proven business platform at a reasonable price.

More Information can be found under:

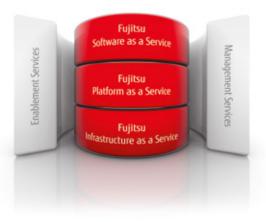
→ https://partners.ts.fujitsu.com/RapidStructure (Partners only)

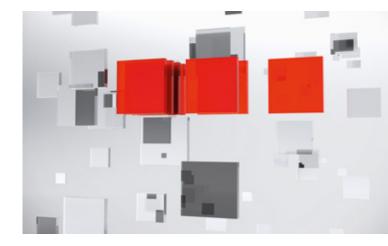
Fujitsu Cloud



Solutions provided via the cloud offer obvious agility, control, speed and cost efficiency advantages. Cloud solutions also have the potential to transform businesses by innovating the way technology is provisioned and adopted throughout an organization.

Transitioning to the cloud is a complex journey. It is often marked by various commercial and technical challenges and risks. Therefore, it is essential to have a trusted, experienced partner at your side. You need a partner who can help you chart a roadmap that is as unique as the business outcomes you desire. We at Fujitsu draw on one of the strongest cloud portfolios in the industry and the experience we have gained successfully delivering over 2000 cloud projects worldwide. Using our experience we will advise you on the right cloud solutions for your organization. We fuse the various platforms you deploy for a more intelligent user experience. Furthermore we support you with the professional and managed services you need.





Fujitsu Cloud is about giving you the freedom to choose without losing control. Our cloud portfolio covers Infrastructure as a Service (IaaS), Platform as a Service (PaaS) and Software as a Service (SaaS) and we complement these with a wide range of professional management and enablement services.

Fujitsu Cloud Infrastructure as a Service

Fujitsu offers a choice of laaS platforms: from trusted public cloud, local cloud to private cloud

- Fujitsu Cloud IaaS Trusted Public S5
- Fujitsu Cloud IaaS Trusted Public S5 Dedicated
- Fujitsu Cloud IaaS Private Hosted
- Private Cloud (see page 118)

Fujitsu Cloud Platform as a Service

Fujitsu Cloud Platform as a Service

Fujitsu provides a wide range of PaaS services including native application development platform, security and single sign-on, workflow integration technologies, plus marketplace technologies to give precisely the level of support you need.

- Fujitsu RunMyProcess
- Cloud Enablement Services

Fujitsu Cloud Software as a Service

Fujitsu offers a wide range of SaaS applications as subscription-based services – supported by implementation, customization and integration services.

- IT Management as a Service (see page 120)
- Eco Track (see page 121)
- Backup as a Service
- End User Protect
- Managed Mobile

For more information on our Cloud solutions, please visit www.fujitsu.com/fts/cloud/ or contact cloud@ts.fujitsu.com

Fujitsu Private Cloud Infrastructure Solutions







Reference Architecture Factory-Integrate Solution

Fujitsu can meet all requirements in supporting customer projects to implement an own private cloud infrastructure-starting from cloud infrastructure management software for highly customized projects up to proven reference architectures and ready-to-run factory-integrated cloud infrastructure solutions enabling faster time to production.

Management Software -

Fujitsu ServerView Resource Orchestrator Cloud Edition
ServerView Resource Orchestrator Cloud Edition (ROR CE) is
management software for delivering IT infrastructures simple,
fast and reliable. The software helps IT organizations to implement an on-premise private cloud infrastructure to provide
infrastructure as a service (laaS). ROR CE delivers dynamic
resource management and cloud infrastructure management
enabling self-service provisioning for simple and speedy IT
delivery. Physical and virtual servers, storage and networks,
are automatically provisioned in minutes, at a fraction of the
cost of traditional provisioning methods. ROR CE guarantees
the availability of IT infrastructures by providing a number of
high-availability options at various levels, from the protection
of single physical and virtual servers, to recovery support for a
complete blade chassis or storage system failure, to disaster

→ www.fujitsu.com/fts/ror-ce

recovery in the case of complete site failures.

Reference Architectures and Factory-Integrated Solutions

Many enterprises have identified cloud computing as a strategic initiative to improve customer satisfaction and support business agility. However, for IT organizations that plan to offer cloud services out of their own data center operations, the challenges of installing and configuring a cloud platform can be overwhelming. Fujitsu's reference architectures and factory-integrated cloud infrastructure solutions deliver everything you need to deploy and run a powerful consolidation, virtualization and laaS platform. They include all

the hardware (server, storage and network) and software (virtualization and cloud infrastructure management) components to implement a cloud infrastructure and are specifically tailored to reduce implementation risk and to enable faster time to production.

- Fujitsu Dynamic Infrastructures for VMware vCloud "Dynamic Infrastructures for VMware vCloud" is a reference architecture based on Fujitsu expert know how and best practices providing an IT infrastructure solution optimized to implement and run a VMware vCloud environment. → www.fujitsu.com/fts/di-for-vmware-vcloud
- Fujitsu Integrated System Cloud Ready Blocks
 "Cloud Ready Blocks" is a factory-integrated IT infrastructure solution that provides customers with a holistic cloud infrastructure platform supporting dedicated operating systems and multiple hypervisors. Cloud Ready Blocks include deployment, maintenance and support services. These integrated services can be complemented by optional services such as customer specific integration. A key component to reduce maintenance efforts is the integrated life cycle manager responsible for maintaining consistency of infrastructure components across the complete life-cycle.
 - → www.fujitsu.com/fts/cloud-ready-blocks

Fujitsu Integrated System Cloud Ready Blocks								
Deployment Service	ıce	Cloud I	nfrastructure Mana	gement	ıager			
	Maintenance Service		Hypervisor		Lifecycle Manager			
De	Ma	Server	Storage	Network	Lifecy			

Fujitsu

IT Management as a Service



Fujitsu IT Management as a Service is hosted in the Fujitsu Global Cloud Platform – a trusted cloud service that gives you flexible, reliable, on-demand access to your business applications. With ITMaaS available in several locations around the world, you can adopt a standardized approach to service desk and monitoring.

Service Desk as a Service

Fujitsu Service Desk as a Service provides a service management solution with built in ITIL-certified processes, best practices and action-based workflows for managing, coordinating and optimizing all aspects of service delivery: Flexible incident management, powerful knowledge management, sophisticated service level management, robust change management and intelligent configuration management.

Monitoring as a Service

Fujitsu Monitoring as a Service gives you the comprehensive monitoring insights you need to ensure all your business services perform optimally at all times. Monitoring as a Service provides a single, unified interface to track all the vital, dynamic resources your business relies on – whether in the cloud or on-premise.

Customer benefits

Boost and optimize service levels

 deliver the operational insights
 needed to enable a more effective
 service for cloud and non-cloud

- Faster deployment there's no need to acquire or set up the IT infrastructure, so your organization can deploy monitoring more quickly
- Improve staff efficiency use the automation, knowledge base and workflows built into the system to enhance the productivity and effectiveness of your staff
- Reduce costs eliminate the system and administrative costs of running, supporting and managing an on-premise solution

Why Fujitsu?

Fujitsu is a trusted leader in IT management services with a 30 year track record in managed services delivery, with extensive experience of both deploying and delivering monitoring and service desk solutions. We have over 1,900 service desk clients worldwide, with services delivered from 145 data centers - a mix of traditional and cloud services. It means we understand how to optimize IT management to ensure your organization reaps maximum value. Powered by CA Nimsoft, you can leverage the industry's only unified IT Management as a Service solution - giving you all the capabilities you need to ensure a high performance environment. Our proud tradition of providing high quality enterprisegrade IT Management services has now been extended to efficient cloud-based services that are suitable for SMEs through to the largest enterprises and government customers.

Environmental Management

via Fujitsu Eco Track[®]



Fujitsu Eco Track is a cloud service enabling large and medium companies to reduce energy cost and simultaneously meet regulatory requirements on corporate environmental performance and energy efficiency. Designed as an international solution, Fujitsu Eco Track supports multiple languages, national laws and global reporting standards like ISO 50001.

Energy Reporting for European Businesses

European Parliament Energy Efficiency Directive (EED) requires European enterprises to regularly undergo audits on their energy efficiency. Leveraging the experience from complying with similar laws in Japan for more than ten years and from servicing more than 80 major customers, Fujitsu offers Eco Track, a localised version of its environmental management system, to customers in the European Union.

Complete Workflow for Easy Energy Auditing Processes

Fujitsu Eco Track is a convenient user-based and role-based solution. It covers the complete workflow including target definition, data acquisition and analysis, plus reporting and process management. Reporting is supported by internal system notification and reminder functions based on e-mail along with templates for collecting data and graphic analysis functions. In addition, there is an option for connecting the solution to other data collection systems and business accounting systems for the purpose of gathering sufficient audit information.

Eco Track Editions

Eco Track comes in 5 editions addressing different company needs and price-points. Starting from the pure energy reporting needs of mid-size companies, below 10 organizational units, Eco Track editions can serve up to largest corporations with thousands of units, substantial workflow-requirements and total flexibility in reporting element definitions.

5 Reasons for choosing Eco Track

- 1. Complies to European laws and regulations
- 2. Supports ISO 50001 audit processes on energy efficiency
- **3.** Comprehensive analysis, planning features and extensive reporting functions
- 4. Secure data management and ease of use
- 5. Multiple language support

Fujitsu Compliant Archiving

SecDocs®

An increasing amount of documentation needs to be retained for long term periods to fulfill compliance regulations in business processes. In case of audits or legal issues, this documentation has to be provided rapidly and completely. Today, a mix of paper based and electronic documents is archived to fulfill manifold compliance rules. Especially archiving of paper is a significant cost driver, a long term preservation risk and retrieval is cumbersome and tedious. Hence, there is the growing demand to replace paper archives with digital ones. Considering legal requirements and compliance rules, provable document integrity and authenticity are essential for digital archives and lead to severe challenges. Fujitsu Compliant Archiving enables full replacement of paper and compliant long term storage of digital documents from usually referenced periods up to even longer than a human life, according to international compliance rules. Fujitsu Compliant Archiving is designed for archiving of digitally reformatted materials, e.g. paper scans, as well as born-digital documents. Long term accessibility of data is supported by formats capable to be retained for this purpose. Furthermore, integrity and authenticity of archived documents is proven during arbitrary retention periods for usability in court (e.g. "prima facie evidence").

Fujitsu SecDocs

SecDocs is the Fujitsu offering for sustainable and compliant long term preservation based on open standards (e.g. IETF LTANS, RFC 4998, W3C, XML, etc.). It provides the highest level of (trans-)portable proof of evidence (Evidence Records) at enduring low recurring cost. Verification of evidence anywhere at any time is assured using qualified electronic timestamps of authorized providers. The security kernel is certified by the German Federal Office for Information Security according to international Common Criteria level EAL4+. This way SecDocs offers independency regarding life cycles of applications, cryptographic algorithms and even infrastructures. Designed as a Web Service, a seamless and easy integration into existing IT-architectures and processes enables rapid deployment of legally compliant archiving. Due to full multi-tenancy of SecDocs, a centralized service offering for any amount of applications that need long term preservation can be provided. In addition to an on-premises solution, SecDocs may be used offpremises as a Service hosted and operated in Fujitsu Data Centers. In this case Fujitsu takes care of the operational tasks as on-demand availability and pay-per-use-billing, systems- and storage capacity-management.

Unique Benefits and Features

Compliant Archiving – Longer than a human Life

- Digital time-stamps provided by trustworthy Time-Stamp-Provider
- Transportable permanent evidentiary value according to international standards
- Mandatory verification of optional Qualified Electronic Signatures for documents
- Highest level of document integrity and invulnerability, self-contained security

Certified Solution – based on Open Standards

- Security Solution certified at Common Criteria Level EAL4+
- International Standards IETF LTANS-ERS, RFC 4998, W3C, XML, XSD-Schema
- National Standards BSI-TR-03125, eCard-Framework, etc.
- Automated adaption of new security requirements and standards during life cycle

Features

- Multi-tenancy and role concept, archives completely segregated from each other
- Easy integration in existing solutions and operation via Web-Services interface
- License fees depending on number of objects in the archive
- Migration and enrichment of existing paper and digital archives

Robust biometric authentication technology for your high-security



The Fujitsu PalmSecure™ technology is a palm vein based strong authentication solution that utilizes industry-leading vascular pattern biometric technology. This innovation offers a highly reliable, contactless biometric authentication solution that is non-intrusive and easy to use. PalmSecure™ technology has been deployed worldwide in a wide range of vertical markets, including security, financial/banking, healthcare, commercial enterprises and educational facilities. Additional applications include physical access control, logical access control, retail POS systems, ATMs, kiosks, time and attendance management systems, visitor ID management and other industry-specific biometric applications. The Fujitsu Palm-Secure[™] sensor uses near-infrared light to capture a person's palm vein pattern, generating a unique biometric template that is matched against pre-registered user palm vein patterns. The palm vein device can only recognize the pattern if the blood is actively flowing within the individual's veins, which means that forgery is virtually impossible. This advanced, vascular pattern recognition technology provides highly reliable authentication. The PalmSecure™ technology false accept rate is just 0.00008 percent with an exceptional false reject rate of 0.01 percent, all in a small form factor that generates extremely fast authentication, usually under one second. To ease work flow and protect digital assets, Fujitsu also developed PalmSecure LOGONDIRECTOR (PLD) which seamlessly works with many leading Single Sign-On (SSO) software solutions and increases security, while significantly reducing the costs associated with password management.

Features

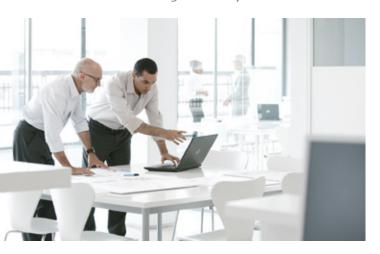
 Advanced biometric authentication algorithm delivers ultra-low FAR (false accept rate) and FRR (false reject rate)

	Palm Secure	Iris	Back Hand Vein	Finger- print	Finger Vein	Hand Geometry	Facil Recog- nition	Signature	Voice
FRR	0,01%	0,01%	0,1%	0,1%	0,3%	0,8%	2,6%	1,0%	3,0%
FAR	0,00008%	0,0001%	0,0001%	0,001%	0,001%	0,07%	1,3%	1,0%	3,0%

FRR = False Rejection Rate FAR = False Acceptance Rate

- Contactless palm vein authentication is hygienic and noninvasive No Residual Trace Technology
- Encrypted repository for template storage & enterprise level event logging capability
- PalmSecure Authentication recognized by leading International Security Bodies, including International Common Criteria and CNIL
- Quick-start deployment across the enterprise raises security and adds value
- Fast and easy registration with virtually no enrollment error.
- Biometric integration for third party Single Sign-On (SSO) solutions with PalmSecure LOGONDIRECTOR

Fujitsu Server Terracotta BigMemory



Processing and analysis of large amounts of data challenges more and more businesses with the question how to guarantee performance and processing speed for a growing number of users. Strong increase in data volume, the number of new data sources and the increasing heterogeneity and complexity of data limit conventional methods and tools. Checks of credit card transactions for fraud or analysis of call detail records of telecommunications companies are just examples for this.

The solution: Fujitsu Server Terracotta BigMemory

Fujitsu Server Terracotta BigMemory provides ultra-fast access to huge amounts of data. Companies can transform the way they access, analyze and act on data. Today's business applications store their data in databases. At a certain point in time less than 10% of the data are in main memory while 90% exist only on disk. In-memory data management turns this ratio around when 90% or even 100% of the data lives in main memory. Fujitsu Server Terracotta BigMemory provides substantial performance gains and predictable short response times especially for Java and web-based applications. As a drop-in solution it has minimum impact on existing applications and allows short time-to-production.

Fujitsu Server Terracotta BigMemory combines Fujitsu PRIMERGY servers, Terracotta BigMemory software and comprehensive optimization services for tuning and integration. The solution is pre-configured, tested, available in sizes Entry and Enterprise and flexibly grows with customer requirements.

Customer benefits

- Fast processing of large and growing amounts of data
- Fast access to data with in-memory technologies and optimum utilization of associated main memory
- Business requirements for applications and service level agreements (SLAs) can be met
- Bundling of main memory of multiple servers into a logical main memory that can be expanded with increasing demand (Scale Out)
- Easy integration of Fujitsu Server Terracotta BigMemory into existing environments - without substantially rewriting the applications
- Perfect fit of Fujitsu Server Terracotta BigMemory into your IT environment and optimized price-performance ratio
- The Fujitsu solution grows with customer requirements

Why Fujitsu?

- Real-time access to massive amounts of business data

 predictable performance for more data, more users
 and transactions and faster processing, analysis of data
 and decision support by thorough data analysis
- Powerful and reliable, highly scalable Fujitsu PRIMERGY servers with excellent price-performance ratio perfectly tuned for Terracotta BigMemory
- Pre-configuration eliminates design efforts for customers, minimizes project risks and ensures shorter time-to-operation
- Comprehensive range of services
- High scalability enables flexible growth with customer requirements

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