

# Data Sheet Fujitsu PRIMERGY RX900 S2 8 socket 8 U rack server

It starts where 4 socket servers end up!

The PRIMERGY RX Rack Server family is the perfect platform to form dynamic infrastructures for your business processes today and in the coming decade. You will thus benefit several times over from our recognized experience in optimized data center technology and our innovative strength in developing energy-efficient and cost/ performance-optimized rack systems for universal use. PRIMERGY rack servers, built upon industry standards, focus from a functional viewpoint on core features: energy efficiency, reliability, optimized for virtualization, ease of operation and maintenance, flexibility for your future. And thus they notably meet your requirements for outstanding cost efficiency. Optimal operating costs and long-term usability comply with the IT quality required by your customers. Our responsibility goes way beyond the hardware as our tailor-made service packages mean that you can rely on the best support for your IT during its whole lifecycle.

PRIMERGY RX900 S2

PRIMERGY RX900 S2 is a new x86 based 8-socket rack server, designed for mission-critical back-end services, scale-up corporate workloads and high performance database processing. It constitutes a highly scalable, next-generation Intel Xeon processor E7-8800 based server that significantly extends the economic advantages of x86 industry standard scale-up solutions.

It scales the usage patterns for single standard operating system deployment to new frontiers far beyond the 4 socket standard x86 server class. PRIMERGY RX900 S2 provides extreme scalability as regards the processing performance (80 cores), memory expandability (2 TB RAM) and its aggregated peak I/O bandwidth of more than

100 Gigabyte/s with 16 x PCle slots and 2x 10 GbE + 6x 1 GbE onboard. It scales up linearly for I/O, memory and CPUs inside the 8 U rack system unit without the need for infrastructure changes. Very large corporate databases and heavy load transactional processing applications, where response time and throughput is paramount, will benefit best from the platform's efficient scalability and high I/O bandwidth. Likewise, corporate SAP/ERP, Decision Support services and Business Intelligence solutions, where performance for time-to-results constitutes the business critical value, will profit from its enormous processing power. Using enterprise virtualization suites such as VMware, Hyper-V and Xen, PRIMERGY RX900 S2 as well enables for large scale consolidation of virtual servers to a central point, running many big VMs without performance barriers. The PRIMERGY RX900 S2 provides all the mission critical attributes for a constantly reliable IT production.











Page 1 / 8 www.fujitsu.com/fts

## Features and Benefits

### 8 sockets scale-up performance

Main Features

- With PRIMERGY RX900 S2, the highspeed Intel Quickpath QPI link architecture is used to enable seamless 8-socket scalability using the new Intel® Xeon® E7-8800 processor family with up to 10 cores per CPU. The result is a new scale-up server, that sets a new performance reach achievable with x86 rack server technology.
- Compared to latest generation 4 socket Xeon servers, the new RX900 S2 with Intel Xeon processor E7-8800 product family scales up to 80 processor cores and 160 threads a double-up in number of cores and threads per system. Combined with the massive memory capacity using up to 128 memory DIMM sockets, the RX900 S2 truly constitutes a new 8 socket x86 performance class which starts where the 4-socket x86 server reach is ending up.

#### Linear Scalability

RX900 S2 provides linear scalability by simultaneously expanding I/O capacity, memory capacity and CPU performance, once upgrading the system with combined CPU/Memory boards. Not only will CPU performance scale up in line with additional 16 memory slots per configurable board. With Intel QPI link technology, a fully populated 8 CPU system will have 4 activated I/O hubs, providing aggregated peak I/O bandwidth of more than 100 GByte/s. The two onboard 10 Gigabit Ethernet controllers plus 6 x 1000 baseT onboard Ethernet ports ensure ample IP network bandwidth from the very start.

### Scale-up growth without a change

- The new PRIMERGY RX900 S2 packs its scalability for 8 socket performance, 16 x PCle slots, up to 128 memory sockets on 8 CPU/ Memory boards, and 2+1 or 2+2 power supply redundancy features into a space saving 8U rack unit.
- Starting with a 4 socket basic configuration, it enables to scale up the system to its upper limits, inside the same chassis and without having to modify the rack infrastructure.

### Integrated High Availability as Standard

- Advanced Memory Mirroring, ECC and SDDC memory protection, hot-plug redundant fans, hot-plug power supplies (2+1 and 2+2 redundancy), up to 8 x hot-plug SAS /SATA hard disks and hot-plug PCIe slots, integrated RAID controller
- LocalView display and integrated Baseboard Management Controller, new RAS features of Intel Xeon processor E7-8800 product family enable for enhanced error correction/circumvention activities with support of the Operating systems

■ This comprehensive portfolio expansion will give you the opportunity to benefit from extreme scale-up performance and reliability of PRIMERGY industry standard servers in datacenter scenarios that so far had been closed for x86 servers. RX900 S2 is driving the x86 price performance benefits into to the segments of proprietary UNIX bastions.

Benefits

- Linear scalability ensures for efficient growth in CPU/ Memory and I/O capacities. Irrespective of the server usage as Database, ERP, Decision Support or Virtualization system- once additional processor/memory boards are added to the system, the performance gains will equally benefit from the incremental I/O resources activated in the same step.
- This system is designed to enable for scale-up growth as necessities dictate. Due to the glueless system design with latest Intel QPI link architecture, all scale up performance upgrades are inside the RX900 S2 system. Thus scale-up with PRIMERGY RX900 S2 does not need addition of external boxes or controllers that would necessarily change and re-arrange the given infrastructure of a datacenter rack setup and thus cause unwanted additional downtimes.
- New RAS features have been built in to the Intel Xeon processor E7-8800 product family to enable advanced actions for error circumvention, assisted by the enterprise x86 operating systems. This perfectly combines with the built in High Availabilty features of the RX900 S2 platform. The result is an IT business platform that provides unprecedented operational continuity and more value for money in the high end server range.

Page 2 / 8 www.fujitsu.com/fts

## Technical details

Mainboard	
Chipset	Intel® 7500 / 7510 Scalable Memory Buffer
Processor quantity and type	4, 6 or 8 x Intel® Xeon® processor E7-8800 series
Processor	
	(,)
	Intel® Xeon® processor E7-8830
	(8C/16T, 2.13 GHz, SLC: -, TLC: 24 MB, Turbo: 0/1/1/1/2, 6.4 GT/s, 105 W)
	Intel® Xeon® processor E7-8837
	(8C/8T, 2.67 GHz, SLC: -, TLC: 24 MB, Turbo: 0/1/1/1/1, 6.4 GT/s, 130 W)
	Intel® Xeon® processor E7-8850
	(10C/20T, 2.00 GHz, SLC: -, TLC: 24 MB, Turbo: 1/1/2/3/3, 6.4 GT/s, 130 W)
	Intel® Xeon® processor E7-8860
	(10C/20T, 2.26 GHz, SLC: -, TLC: 24 MB, Turbo: 1/1/2/3/3, 6.4 GT/s, 130 W)
	Intel® Xeon® processor E7-8870
	(10C/20T, 2.40 GHz, SLC: -, TLC: 30 MB, Turbo: 1/1/2/3/3, 6.4 GT/s, 130 W)
Memory slots	128 (distributed on 8 CPU / Memory Riser cards with 16 memory slots each)
Memory slot type	DIMM (DDR3) registered
Memory capacity (min max.)	8 GB - 4096 GB
Memory protection	Advanced ECC
	Memory Scrubbing
	SDDC (Chipkill™)
	Memory Mirroring support
Memory options	16 GB (4 module(s) 4 GB) DDR3 LV, registered, ECC, 1333 MHz, PC3-10600, DIMM
	32 GB (4 module(s) 8 GB) DDR3 LV, registered, ECC, 1066 MHz, PC3-8500, DIMM
	32 GB (4 module(s) 8 GB) DDR3 LV, registered, ECC, 1333 MHz, PC3-10600, DIMM
	64 GB (4 module(s) 16 GB) DDR3 LV, registered, ECC, 1066 MHz, PC3-8500, DIMM
Memory modules notes	Memory modules will be delivered in set´s of 4 DIMMs per order code.
,	Intel® 7510 Scalable Memory Buffer supports max. 1066MHz memory clock speed. Clock speed is also depending or
	the processor type.
	4TB memory capacity will be possible when 32GB DIMM modules are available.
Interfaces	
USB ports	8 x USB 2.0 (3 x front, 4 x rear, 1 x internal)
Graphics (15-pin)	2 x VGA (1 x front, 1 x rear)
Serial 1 (9-pin)	1 x RS-232-C
LAN / Ethernet (RJ-45)	6 x Gbit/s Ethernet, 2x 10 Gbit/s Ethernet
Service LAN (RJ45)	1 x dedicated service LAN port for iRMC S2 (10/100 Mbit/s)
	Service LAN traffic can be switched to shared onboard Gbit LAN port
Onboard or integrated Controller	
RAID controller	8 Port SAS RAID 5/6 controller as option
	See under Components RAID controller
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)
Trusted Platform Module (TPM) Slots	Infineon / separate module; TCG V1.2 compliant (option)
	Infineon / separate module; TCG V1.2 compliant (option)  2 x Full height (all ½ length)

Page 3 / 8 www.fujitsu.com/fts

intereal system information  funding and fine for a fine plug  perating parel  Operating buttons	Charago drivo have	0 v 3 F inch hot alva CAC
Surecal system Information  Vumber of fans A Conconfiguration  Operating panel  Operating panel  Operating buttons On offis switch NMI button  And system status (orange / yellow)  Identification (blue)  Hard disks access (grenn)  Power (amber / green)  At system rear side- System status (orange / yellow)  Identification (blue)  Server(iden)  Recovery RIDS  BIOS  BIOS Server(iden)  Recovery RIDS  BIOS Settings sawe and restore  Local BIOS settings sawe and restore  Local and remote update via Server(ivew Update Manager  SMBIOS V2A  Remote RICS to boot support  Remote RICS to b	Storage drive bays	8 x 2.5-inch hot-plug SAS
Automation   Not plug		I X 5.25/0.5-INCN FOR CU-RW/DVD
Operating panel  Operating panel  Operating panel  Operating buttons  On/off switch NMI button  Status LEDs  System status (orange / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (orange / yellow) Identification (blue)  Servet/lew local Service Display (LSD)  Servet/lew local Service Display (LSD)  SOS Features  POM based setup utility Recovery BIOS BIOS settings save and restore Local all Rot update from USB device Online update tools for main Windows and Linux versions Local and remote update via Servet/View Update Manager SWBIOS V2-4 Remote PXE boot support Remote ISCSI boot support Remote	General system information	
Operating buttons	Number of fans	4
Departing buttons   Onloif switch   NMI button	Fan configuration	hot plug
isiatus LEDs System satus (orange / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System satus (orange / yellow) Identification (blue)  ServerView Local Service Display (LSD)  SONS  ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update vols for main Windows and Linux versions Local and remote update vols for main Windows and Linux versions Local and remote update vols for main Windows and Linux versions Local and remote update vols for main Windows and Linux versions Local and remote update vols for main Windows and Linux versions Local and remote update vols for main Windows and Linux versions Local and remote update vols for main Windows ServerView Update Manager SMBIOS V.4 Remote PXE boot support Remote PXE boot support Remote PXE boot support Remote ISCSI boot support Remote Systems and Virtualization Software Microsoft® Windows Server® 2008 R2 Microsoft® Windows Server® 2008 R2 Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows® Server® 2	Operating panel	
System status (orange / yellow) Identification (blue) Hand disks access (green) Power (amber / green) At system rear side: System status (orange / yellow) Identification (blue)  ServeYolew Local Service Display (LSD)  SIOS  SIOS Features Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update was ServerView Update Manager SMBIOS v7. 4 Remote PXE boot support Remote DXE boot support Remote PXE boot suppor	Operating buttons	
Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (orange / yellow) Identification (blue) Service display ServerView Local Service Display (LSD)  SIOS  ROM based setup utility Recovery BIOS BIOS settures Rowl based setup utility Recovery BIOS BIOS settures Rowl based setup utility Recovery BIOS BIOS settures Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2. 4 Remote PXE boot support Remote ISCSI boot support Remote PXE boot support		
Haid disks access (green) Power (amber / green) At system rear side: System status (orange / yellow) Identification (blue)  Service display Serview Local Service Display (LSD)  3005  3005  3005  BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and iemote update wia ServerView Update Manager SMBIOS v2.4 Remote ISCS boot support Remote ISCSI boot support R	Status LEDs	
Power (amber / green) At system rear side: System status (orange / yellow) Identification (blue)  Service display ServerNew Local Service Display (LSD)  BIOS  ROM based setup utility Recovery BIOS BIOS settings save and restore Local BiOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerNiew Update Manager SMBIOS V2. 4 Remote PXE boot support Remote ISCSI boot support Remote ISCSI boot support Remote Oscipating Systems and Virtualization Software  Microsoft® Windows Server 2008 R2 Microsoft® Windows Server 2008 R2 Enterprise Microsoft® Windows Server 2008 R2 Enterprise Microsoft® Windows Server 2008 Rateprise Microsoft® Windows Server 2008 Rateprise Microsoft® Windows Server 2008 Standard VMware vSphere™ 5.0 VMware vSphere™ 6.1 VMware vSphere™ 6.1 VMware vSphere™ 6.1 VMware vSphere™ 6.1 Novel® SUSE Linux Enterprise Server 11 Novel® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Ente		
At system rear side: Systems status (orange / yellow) identification (blue)  ServerView Local Service Display (LSD)  SIOS  SIOS Features  ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote SICS boot support Remote SI		
System status (orange / yellow) identification (blue)  ServerView Local Service Display (LSD)  SIOS  SIOS Features  ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote ISCSI boot support Microsoft® Windows Server® 2008 R2 Datacenter Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows		
identification (blue) ServerView Local Service Display (LSD)  SIOS  SIOS  ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote PSE boot support Microsoft® Windows Server® 2008 R2 Reterprise Microsoft® Windows Server® 2008 R2 Datacenter Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Enterprise Windows® Server 2008 Enterprise Vilware vSphere™ 5.0 Embedded Vilware vSphere™ 5.1 Embedded Vilware vSphere™ 4.1 I Embedded Vilware vSphere™ 4.1 I Embedded Vilware vSphere™ 4.1 I Embedded Vilware vSphere™ 4.1 Embedded Vilware vSphe		
ServerView Local Service Display (LSD)  BIOS Features ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote EXE boot support Remote PXE boo		
BIOS features  ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2. 4 Remote PXE boot support Remote ISCSI boot support Remote or supported operating Systems and Virtualization Software  Wicrosoft® Windows Server® 2008 R2 Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows® Server 2008 Datacenter Microsoft® Windows® Server 2008 Enterprise Microsoft® Wind	Service display	
ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote iSCSI in iNtimote in invited in invited is in invited in invited is invited in invited in invited is invited in		
Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support R		ROM based setup utility
BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote SICSI boot support Remote iSCSI boot support  Deparating Systems and Virtualization Software  Certified or supported operating Microsoft® Windows Server® 2008 R2 Microsoft® Windows Server® 2008 R2 Datacenter Microsoft® Windows Server 2008 R2 Enterprise Microsoft® Windows® Server 2008 Datacenter Microsoft® Windows® Server 2008 Datacenter Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Standard VMware vSphere™ 5.0 Embedded VMware vSphere™ 4.1 VMware vSphere™ 4.1 VMware vSphere™ 4.1 Installable Novell® SUSE Linux Enterprise Server 11 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 with XEN Oracle® VM 3.0  Operating system release link http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421	bios icataics	
Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and emote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot su		
Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote PXE boot support Remote iSCSI boot support  Certified or supported operating systems and virtualization software  Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Server® 2008 R2 Datacenter Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows® Server 2008 Batacenter Microsoft® Windows® Server 2008 Batacenter Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 Sith XEN Oracle® VM 3.0  Operating system release link  http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		
SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support Remote iSCSI boot support  Deparating Systems and Virtualization Software  Lertified or supported operating systems and virtualization software  Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows® Server 2008 Batacenter Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Deparating system release link  http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		Online update tools for main Windows and Linux versions
Remote PXE boot support Remote iSCSI boot support Remote iSCSI boot support  Describing Systems and Virtualization Software  Lettified or supported operating systems and virtualization software  Microsoft® Hyper-V™ Server 2008 R2  Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows® Server 2008 Batacenter Microsoft® Windows® Server 2008 Batacenter Microsoft® Windows® Server 2008 Batacenter Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Embedded  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Deparating system release link  http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		
Remote iSCSI boot support  Defaulting Systems and Virtualization Software  Certified or supported operating systems and virtualization software  Microsoft® Myper-V™ Server 2008 R2 Datacenter  Microsoft® Windows Server® 2008 R2 Enterprise  Microsoft® Windows® Server 2008 Datacenter  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 5.0  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Defaulting system release link  http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		
Derating Systems and Virtualization Software  Certified or supported operating systems and virtualization software  Microsoft® Windows Server® 2008 R2 Datacenter  Microsoft® Windows Server® 2008 R2 Enterprise  Microsoft® Windows® Server 2008 Datacenter  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 5.0  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Derating system release link  http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		• • • • • • • • • • • • • • • • • • • •
Microsoft® Hyper-V™ Server 2008 R2  Microsoft® Windows Server® 2008 R2 Datacenter  Microsoft® Windows Server® 2008 R2 Enterprise  Microsoft® Windows® Server 2008 Datacenter  Microsoft® Windows® Server 2008 Batenter  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 5.0  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Deerating system release link  Microsoft® Windows® Server 2008 R2 Enterprise  Microsoft® Windows Server 2008 R		Remote iSCSI boot support
Microsoft® Windows Server® 2008 R2 Datacenter  Microsoft® Windows® Server 2008 R2 Enterprise  Microsoft® Windows® Server 2008 Datacenter  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 5.0  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Derating system release link  Microsoft® Windows Server 2008 R2 Enterprise  Microsoft® Windows Server 2008 Rater  Microsoft® Windows Rater  Microsoft® Windows Rater  Microsoft® Window		
Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows® Server 2008 Datacenter Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Standard VMware vSphere™ 5.0 Embedded VMware vSphere™ 4.1 VMware vSphere™ 4.1 VMware vSphere™ 4.1 Installable Novell® SUSE Linux Enterprise Server 11 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 with XEN Oracle® VM 3.0  Derating system release link  Microsoft® Windows® Server 2008 Datacenter Microsoft® Windows® Server 2008 Enterprise Novell® SUSE Linux Enterprise Server 11 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 with XEN Oracle® VM 3.0	Certified or supported operating	
Microsoft® Windows® Server 2008 Datacenter  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 4.1  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Deerating system release link  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Enterprise  Nowell® SUSE Linux Enterprise  Nowell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0	systems and virtualization software	Microsoft® Windows Server® 2008 R2 Datacenter
Microsoft® Windows® Server 2008 Enterprise Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 4.1  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Installable  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Deerating system release link  Microsoft® Windows® Server 2008 Enterprise  Microsoft® Windows® Server 2008 Enterprise  VMware vSphere™ 4.1  Installable  VMware vSphere™ 4.1 Installable  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0		Microsoft® Windows Server® 2008 R2 Enterprise
Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 5.0  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Deerating system release link  Microsoft® Windows® Server 2008 Standard  VMware vSphere™ 5.0 Embedded  VMware vSphere™ 4.1 Imbedded  VMware vSphere™ 4.1 Installable  VMware vSphere™ 4.1 Installable  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0		Microsoft® Windows® Server 2008 Datacenter
VMware vSphere™ 5.0 Embedded  VMware vSphere™ 5.0  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Deerating system release link  NMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0		Microsoft® Windows® Server 2008 Enterprise
VMware vSphere™ 5.0  VMware vSphere™ 4.1  VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Operating system release link  NMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  VMware vSphere™ 4.1 Embedded  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0		Microsoft® Windows® Server 2008 Standard
VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Deerating system release link  NMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Embedded  Vmare vSphere™ 4.1 Embedded  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0		VMware vSphere™ 5.0 Embedded
VMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Operating system release link  NMware vSphere™ 4.1 Embedded  VMware vSphere™ 4.1 Embedded  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0		VMware vSphere™ 5.0
VMware vSphere™ 4.1 Installable  Novell® SUSE Linux Enterprise Server 11  Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Operating system release link  Nttp://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		VMware vSphere™ 4.1
Novell® SUSE Linux Enterprise Server 11 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 with XEN Oracle® VM 3.0  Operating system release link  Novell® SUSE Linux Enterprise Server 11 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 Novell® SUSE Linux Enterprise Server 10 Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux		VMware vSphere™ 4.1 Embedded
Novell® SUSE Linux Enterprise Server 10  Red Hat® Enterprise Linux 5  Red Hat® Enterprise Linux 5 with XEN  Oracle® VM 3.0  Operating system release link  http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		VMware vSphere™ 4.1 Installable
Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 with XEN Oracle® VM 3.0  Operating system release link  http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		Novell® SUSE Linux Enterprise Server 11
Red Hat® Enterprise Linux 5 Red Hat® Enterprise Linux 5 with XEN Oracle® VM 3.0  Operating system release link  http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		Novell® SUSE Linux Enterprise Server 10
Red Hat® Enterprise Linux 5 with XEN Oracle® VM 3.0  Operating system release link  http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		·
Oracle® VM 3.0  Operating system release link http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421		
	Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421
	Operating system notes	

Page 4 / 8 www.fujitsu.com/fts

Corver Management	
Server Management	ServerView Suite - Deploy
Standard	SV Installation Manager
	SV Scripting Toolkit
	SV Deployment Manager (30-day trial version)
	ServerView Suite - Control
	SV Operations Manager incl. PDA and ASR & R
	(Prefailure and Analysis; Automatic Server Recovery and Restart)
	SV Performance Management
	SV Power Management
	SV RAID Manager
	ServerView Suite - Maintain
	SV Remote Management (iRMC)
	SV Update Management (BIOS, Firmware, Windows Drives and SV Agents) SV Asset Management
	SV Online Diagnostics
	ServerView Suite - Integrate
	SV Integration packs e.g. for Microsoft System Center, Nagios, HP, SIM, HP NNM, IBM Tivoli, Altiris
	Deployment Solutions and others
Option	ServerView Suite - Deploy
	SV Deployment Manager (full version)
	ServerView Suite - Maintain
	iRMC Advanced Pack incl. Advanced Video Redirection (AVR) and Remote Storage
	ServerView Suite - Dynamize
	SV Virtual-IO Manager (VIOM)
	SV Resource Orchestrator Virtual Edition (ROR VE)
	SV Resource Orchestrator Cloud Edition (ROR CE)
	ServerView Suite - Integrate
Conver Management actor	SV Integration pack for Fujitsu ManageNow® solution
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.
Dimensions / Weight	
Rack (W x D x H)	482.6 x 724 x 352 mm
Mounting Depth Rack	724 mm
Height Unit Rack	8 U
19" rackmount	Yes
Weight	max. 85 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option
	каск пледганоп ки аз орноп
Environmental	
Operating ambient temperature	10 - 35°C
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
Sound pressure (LpAm)	60 dB(A) (idle) / 60 dB(A) (operating)
Noise notes / description	at ambient temperature <23°C
Electrical values	
Power supply configuration	Up to 4 hot plug power supplies.
	Base unit equipped with 2 power supplies, redundancy as option.
Max. output of single power supply	2.000 W
Power supply efficiency	92% (at 50% PSU load, CSCI "gold")
Hot-plug power supply redundancy	Yes
Rated voltage range	200 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Active power (max. configuration)	2800 W

Page 5 / 8 www.fujitsu.com/fts

Electrical values	
Heat emission	10080.0 kJ/h (9554.0 BTU/h)
Compliance	
Germany	GS
Еигоре	CE Class A *
USA/Canada	FCC Class A
	CSA
	UL
Global	CB
	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronical equipment)
lapan	VCCI
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National
	approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
Compliance link	http://sp.ts.fujitsu.com/sites/certificates/
•	

# Components

Storage disks	SSD SAS, 6 Gb/s, 400 GB, SLC, hot-plug, 2.5-inch, enterprise
	SSD SAS, 6 Gb/s, 200 GB, SLC, hot-plug, 2.5-inch, enterprise
	SSD SAS, 6 Gb/s, 100 GB, SLC, hot-plug, 2.5-inch, enterprise
	PCIe SSD, 640 GB, MLC, Flash drive
	PCIe SSD, 320 GB, MLC, Flash drive
	HDD SAS, 6 Gb/s, 900 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
Optical drives	Blu-ray Disc™ Triple Writer, (6x BD-ROM; 8x DVD; 24x CD), slimline, SATA I
•	DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I
SCSI / SAS Controller	SAS Ctrl. 6 Gb 8 ports ext. PCle Gen2 x8
	SAS Ctrl. 3 Gb 4 ports int. / 4 ports ext.
RAID Controller	Integrated RAID 5/6 Ctrl., HDD SAS 6 Gb, Fujitsu , 8 ports int.
	RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, Optional BBU (based on LSI SAS2108)
Fibre Channel controller	Fibre Channel Host Bus Adapter 1 x 8 Gb Qlogic QLE2560 MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 8 Gb Qlogic QLE2562 MMF LC-style
	Fibre Channel Host Bus Adapter 1 x 8 Gb Emulex LPe1250 MMF LC-style
	Fibre Channel Host Bus Adapter 2 x 8 Gb Emulex LPe12002 MMF LC-style
AN Controller	Converged Network Adapter 2 x 10 Gb Emulex OCe10102
	Ethernet Ctrl. 1 x 1 Gb Intel® PRO/1000 PF Server Adapter
	Ethernet Ctrl. 2 x 10 Gb Fujitsu Eth Ctrl 2x10Gbit PCle x8 D2755 SFP+
	Ethernet Ctrl. 2 x 1 Gb Fujitsu LAN Adapter D2735-2
	Ethernet Ctrl. 4 x 1 Gb Fujitsu Eth Ctrl 4x1Gbit PCle x4 D2745 Cu
	InfiniBand HCA 1 x 40 Gb Mellanox
	InfiniBand HCA 2 x 40 Gb Mellanox

Page 6 / 8 www.fujitsu.com/fts

Rack infrastructure	Cable Arm 2U for PCR M1 S and 3rd party racks
	Rackmount kit full extraction (760mm)
Warranty	
Standard Warranty	3 years
Service level	On-site Service (depending on country)
Maintenance and Support Servi	ices - the perfect extension
Recommended Service	7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years
Service Weblink	http://www.fujitsu.com/fts/services

Page 7 / 8 www.fujitsu.com/fts

## More information

### Fujitsu platform solutions

In addition to Fujitsu PRIMERGY RX900 S2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### **Dynamic Infrastructures**

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

### **Computing Products**

www.fujitsu.com/global/services/computing/

### Software

www.fujitsu.com/software/

### More information

Learn more about Fujitsu PRIMERGY RX900 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

www.fujitsu.com/fts

### Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT.

Please find further information at http://www.fujitsu.com/qlobal/about/environment/



### Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see http://www.fujitsu.com/fts/resources/navigation/terms-of-use.html

Copyright © Fujitsu Technology Solutions

### Disclaimer

Technical data are subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

Contact FUIITSU LIMITED

Website: www.fujitsu.com 2012-04-04 CE-EN All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded.

Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

For further information see http://www.fujitsu.com/fts/resources/navigation/terms-of-use.html Copyright © Fujitsu Technology Solutions

Page 8 / 8 www.fujitsu.com/fts