

PRIMERGY RX200 S2

Dual Xeon Processor Rack Server – Reliable and efficient workhorse for server farms

PRIMERGY RX servers are perfect answers for an IT strategy that seeks to downsize data center infrastructure costs by enhancing transparency of structure, management overhead and maximizing the use of investments.

With RX rack servers and the PRIMECENTER rack enclosures, you benefit from our renowned experience in data center technology, which assures the best quality of data center operation. To guarantee heterogeneous data center assets, the PRIMECENTER modular design accommodates seamless integration of PRIMEPOWER compute nodes, storage SAN and NAS subsystems, as well as other infrastructure components such as hubs, KVM switches and more, using a universal power circuit structure.

Cost-effective scaling, simplified operation and enhanced quality of data center IT production are the main benefits in deploying PRIMERGY RX servers. Their centralized PRIMERGY Server View Suite management functions mean less troubleshooting and costs and remote access from anywhere at any time. The flexible custom supply model and our build-to-order process means that only fully built and pre-tested rack solutions are shipped to the customer – shortening your time to production.

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Consolidation strategies for corporate applications in data center server farms with central deployment and control face a number of requirements. Even more important than the best performance per unit of height is ease of management for ongoing cost optimization and operational efficiency in the data center. And since the best things to manage are those that hardly ever fail. Therefore the dual Xeon RX200 with its integrated fail-safe standards such as disk mirroring function, hot-plug disks, hot-spare and mirrored memory, all packed into a space-saving 1 U workhorse, provides you with enhanced quality of service for the management of your business applications.

In addition, you can relax as regards your decision on when and how to use the upcoming option of 64-bit computing:

RX200 S2 comes with the latest 64-bit Intel Xeon EM64Technology.



Key Features	Benefits
<ul style="list-style-type: none">64-bit Intel Xeon processor EM64Technology and up to 2 MB SLC for highest performance.	<ul style="list-style-type: none">With 64-bit Intel Xeon EM64Technology the processor gives the company a way to ease into 64-bit computing, as soon as the individual need of the application comes up:
<ul style="list-style-type: none">Up to 2x 300GB HD, 16 GB memory, storage integration Fibre channel add on, 1U	<ul style="list-style-type: none">Computing power on compact space
<ul style="list-style-type: none">Failsafe standards – 2 x 300 GB hot-plug hard disks, integrated mirroring (IME), hot-spare memory and memory mirroring support, redundant fans, LEDs, ServerView SuiteZCR, hot-plug redundant power supply, RSB S2 (options)	<ul style="list-style-type: none">Minimum management overhead for reliable operation
<ul style="list-style-type: none">2 x Gbit/s Ethernet LAN	<ul style="list-style-type: none">Top-speed communications link via LAN as standard will assure continuity in failover mode

Type	Dual Processor Rack Server
System board	D 1790
Chip set	Intel E7520
Processors	64-bit Intel® Xeon™ (1 - 2)
Frequencies (GHz)	2.80, 3.00, 3.20, 3.40, 3.60, 3.80
Front-Side-Bus	800 MHz
Second-Level-Cache	2 Mbyte, ECC
Memory	1 Gbyte up to max. 16 Gbyte
2-way interleaved, registered ECC DDR2-400 SDRAM; 4 banks with 2 slots each for PC2-3200 modules with 512, 1 and 2 (as soon as available) Gbyte; Memory Scrubbing, Chipkill™, Hot-spare Memory option and Memory Mirroring option	
Flash-EPROM	
Local BIOS update with floppy disk; Remote BIOS update via LAN with Global-Flash and service partition, or through PCE-Boot via LAN from PXE server	
Interfaces	
Serial	1x Serial RS-232-C (9 pin), usable for BMC or OS or shared
Keyboard, Mouse	2x PS/2
USB 2.0	1 x front, 2x back
Graphics	1x VGA (15-pin)
LAN	2x RJ45
Onboard controller **	
SCSI (LSI 1020)	1-channel Ultra320 SCSI for internal HDD's with RAID 1 (Integrated Mirroring Enhanced) (for Windows and Linux)
RAID option (PCI card Ip, ZCR)	RAID level 0, 1 extension for onboard SCSI/RAID controller
LAN (Intel 82546EB)	2x 10/100/1000 Mbit/s Ethernet
Graphics	ATI Rage XL 8 MB
Server management	Baseboard Management Controller (BMC), IPMI 1.5 compatible
Hard disk drives	36, 73, 146, 300 Gbyte, U320 SCSI
1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.	
I/O Slots	PCI-X optional PCIe
1x PCI-X 64-bit / 66 MHz Low Profile 170 mm 1x PCI-X 64-bit / 133 MHz, or PCIe x8 long, usable for low profile cards, with expansion bracket included into the system	
Drive bays	
for hard disks	2x 3.5/1-inch for hot-plug SCSI
for accessible drives	1 x 5.25/0.5-inch, for CD/DVD option or blind cover 1 x 3.5/0.5-inch, for FD drive or LocalView display option or blind cover
Electrical values	
1x Hot-plug power supply unit as standard. Additional hot-plug unit for redundancy option	
Output power	480 W / 1 + 1 x 480 W each
Rated voltage range	100 - 240 V
Rated frequency	50 - 60 Hz
Max. rated current	100 V - 240 V / 7,5A - 3,8A
Rated current in basic configuration	100 V - 240 V / 5A - 2,5A
Active power	600 W
Apparent power	600 VA
Heat emission	2160 kJ/h (2050 btu/h)

Temperature/Noise/Dimension/Weight	
Ambient temperature	10°C - 35°C (to IEC 721)
Sound pressure L _{pAm}	<= 62 dB (A) (ISO9296)
Sound power L _{WAd}	<= 7.5 Bell (ISO9296)
Overall measures	44 * 430 * 770 (mm); (HxWxD)
Rack mounting depth: Rack height units: Rack cable depth:	745 mm, 1 U, 100 mm (900 mm Rack recommended)
Rack integration kit	inclusive telescopic rails as part of the standard delivery
Weight	~ 16 kg (depends on configuration)
Compliance with Norm and Standards	
Product safety	
Global	IEC 60950
Europe	EN 60950
USA	UL 60950 3rd. Ed.
Canada	CAN/CSA-C22.2 No. 60950 3rd. Ed.
Electro magnetic compatibility	
Europe	EN 55 022 class A, EN 55024, EN61000-3-2 / -3
Taiwan / Japan	-
Australia / New Zealand	-
USA / Canada	FCC class A
Declaration of conformity	
Europe (CE)	89/336/EEEC (EMC); 72/23/EEC (LVD)
North America	FCC class A
Approvals	
Product safety	
Global	CB
Europe	CE
USA / Canada	CSAus / CSAc
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.	
Supported operating systems	
Microsoft: Windows 2003 Standard, Enterprise IA32 Edition; Microsoft: Windows 2003 Standard, Enterprise x64 Edition; Microsoft Windows 2003 Web Edition Microsoft: Windows 2000 Advanced Server; Server Novell: NetWare 6.5 SUSE: Enterprise Server 8 for X86 and 9 X86 / EM64T Red Hat: Enterprise Linux 2.1; 3; 4 for X86 / EM64T	
** For supported controllers (onboard and PCI cards for SCSI, RAID, LAN, WAN, etc.), please refer to the corresponding system configurator.	
Server Management (see separate data sheets)	
Standard	PRIMERGY ServerView Suite; PDA, ASR&R
Optional	RemoteView, RemoteView Service Board (RSB)
Front panel	
On/off switch; NMI-, reset button; LEDs for system status (amber), identification (blue), hard disks access (green), power (amber/green); (back: system status, identification)	