Data Sheet

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# PRIMERGY RX200 S3

## Dual Socket Intel® Xeon® Processor based 1 U Rack Server - Reliable and efficient workhorse for server farms

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**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 maximize 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.**

### PRIMERGY RX200 S3

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, up to 4 hot-plug SAS or SATA disks, 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 S3 comes with the latest Dual- or Quad-Core Intel Xeon processor 5000 sequence and up to 32 GB PC2-5300F fully buffered memory.

intel Xeon inside™

| Key Features | Benefits |
|---|---|
| ■ Dual- or Quad-Core Intel Xeon 5000 sequence and 2x 2, 4 or 2x 4 MB SLC offer outstanding Dual- or Quad-Core performance and balanced architecture that incorporates next generation memory and I/O technologies | ■ Higher overall productivity through outstanding Dual-/Quad-Core performance with faster FSB, larger L2 cache etc and extended 64-bit address space and therefore more direct useable memory and performance |
| ■ SAS/SATA HD, 32 GB memory, storage integration Fibre channel add on, 1 U | ■ Computing power on compact space |
| ■ Failsafe standards – 2x 3.5-inch or 4 x 2.5-inch hot-plug hard disks, integrated mirroring (IME), memory mirroring support, redundant fans, LEDs, ServerView Suite<br>■ ZCR (zero channel RAID controller), hot-plug redundant power supply, integrated iRMC Advanced Pack e.g. with local monitor disable function (options) | ■ Minimum management overhead for reliable operation |
| ■ 2 x Gbit/s Ethernet LAN | ■ Top-speed communications link via LAN as standard will assure continuity in failover mode |

| | |
|---|---|
| **Type** | Dual Socket Rack Server |
| **System board** | D 2300 |
| Chip set | Intel® 5000P |
| Processors | Dual- or Quad-Core Intel® Xeon® (1 - 2) |
| Frequencies (GHz) | 5050 (3.00) / 5060 (3.20), 5080 (3.73), 5110 (1.60), 5120 (1.86) / 5130 (2.00), 5140 (2.33), 5148 (2.33) 40W, 5150 (2.66), 5160 (3.00) Dual-Core or L5310 (1.60) 50W E5310 (1.60), L5320 (1.86) 50W, E5320 (1.86), L5335 (2.00) 50W, E5335 (2.00), E5345 (2.33), X5355 (2.66), X5365 (3.00) Quad-Core |
| Front-Side-Bus | 667, 1066, 1333 MHz / also 1066 (5310/20) |
| Second-Level-Cache | 2x 2 (50xx) / 4 (51xx), 2x 4 MB (53xx), ECC |
| **Memory** | 1 GByte up to max. 32 GByte |
| 4-way interleaved, FullyBuffered DIMM DDR2 FBD667; ECC; 8 slots divided into 2 branches with 2 channels each for PC2-5300F modules with 512, 1, 2 and 4 GB; SDDC (Chipkill), Memory Mirroring opt. | |
| **Flash-EPROM** | |
| Local BIOS update with floppy disk; Remote BIOS update via LAN with Global-Flash | |
| **Interfaces** | |
| Serial | 1x Serial RS-232-C (9 pin), usable for iRMC or system |
| Keyboard, Mouse | 2x PS/2 |
| Graphics | 1x VGA (15-pin) |
| USB 2.0 | 2 x front, 2x back |
| LAN | 2x RJ45 |
| **Onboard controller **** | |
| IDE (ATA100) | for 1 x CD / DVD |
| SAS (LSI1068) | 8-Port SAS controller with RAID level 0, 1 (Integrated **Mirroring Enhanced** also for odd numbered HD´s) (for Windows and Linux) |
| RAID option (PCI card lp, ZCR) | RAID level 5 extension for onboard SAS/SATA RAID controller |
| LAN (BroadCom5715) | 2x 10/100/1000 Mbit/s Ethernet (PCE-Boot via LAN from PXE server) |
| Server management | Integrated Remote Management Controller (iRMC) incl. graphics controller, IPMI 2.0 compatible |
| **Hard disk drives** | 36, 73, 146, 300 Gbyte 3.5-inch SAS **or** 36, 73, 146 Gbyte 2.5-inch SAS **or** 80, 160, 250, 500 Gbyte 3.5-inch SATA **or** 60 Gbyte 2.5-inch SATA; No mix of SAS/SATA, no later conversion from 3.5 to 2.5-inch possible |
| 1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary. | |
| **I/O Slots** | PCIe & PCI-X |
| 1x PCI-X 64-bit / 100 MHz Low Profile 170 mm and 1x PCIe x8 standard or low profile 255 **mm or** 1x PCI-X 64-bit / 100 MHz low profile 170 mm and 1x PCI-X 64-bit / 133 MHz standard or low profile 175 mm | |
| **Drive bays** | |
| for hard disks | 2x 3,5/1-inch for hot-plug **or** 4x 2,5/1-inch for hot-plug option |
| for accessible drives | 1 x 5.25/0.5-inch, for CD/DVD |
| **Electrical values** | |
| 1x Hot-plug power supply unit as standard. Additional hot-plug unit for redundancy option | |
| Output power | 650 W / 1 + 1 x 650 W each |
| Rated voltage range | 100 - 240 V |
| Rated frequency | 50 - 60 Hz |
| Max. rated current | 100 V - 240 V / 10A – 5A |
| Rated current in basic configuration | 100 V - 240 V / 5A - 2,5A |
| Active power | 500 W |
| Apparent power | 540 VA |
| Heat emission | 1800 kJ/h ( 1710 btu/h) |

| **Temperature/Noise/Dimension/Weight** | |
|---|---|
| Ambient temperature | 10°C - 35°C (DIN IEC 721-3-3) class 3K2 |
| Declared noise emission according to ISO 9296 | idle* operating* (*ISO 7779) |
| $L_{WAd}$ (1 B = 10 dB) : | 6.7 B 7.5 B |
| $L_{pAm}$ (bystander position): | 50 dB 58 dB |
| Overall measures | 44 * 430 * 770 (mm); (HxWxD) |
| Rack mounting depth:<br>Rack height units:<br>Rack cable depth: | 745 mm,<br>1 U,<br>100 mm<br>(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 | $CSA_{US}$ / $CSA_{C}$ |
| 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 server operating systems** | |
| See actual release status operating systems: e.g. Windows Server 2003; Novell SUSE Linux Enterprise Server , Red Hat Enterprise Linux; VMware ESX (Support of Debian, Ubuntu, Mandriva Linux and other Linux derivatives on demand) | |
| ** 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, iRMC Advanced Pack |
| **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) | |



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